

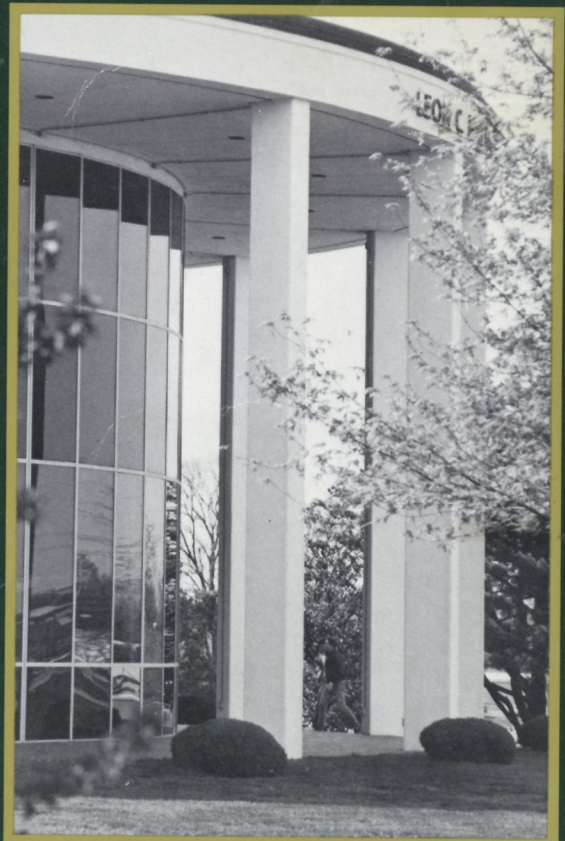
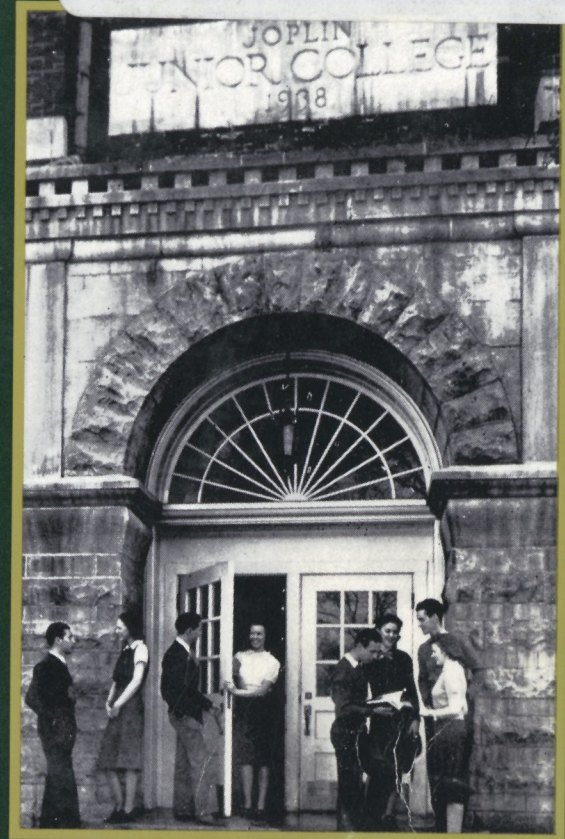
DR. GAIL K RENNER
SOCIAL SCIENCES

114F

MISSOURI
SOUTHERN
STATE COLLEGE

50 YEARS

OF EXCELLENCE



GENERAL
CATALOG 1987-89

Missouri Southern State College

Joplin, Missouri



Missouri Southern State College begins a new era as it celebrates its Golden Anniversary. In addition to celebrating fifty years of higher education, Missouri Southern also celebrates the twentieth year of the campus on the hill, burgeoning around the historic Mission Hills farm, and its tenth year as a fully state supported institution.

Missouri Southern grants baccalaureate and associate degrees for an education with a liberal arts foundation and innovative professional direction. A community of scholar-teachers are dedicated to instilling the concept of life-long learning that will enable students to adapt to a constantly evolving society.



DEDICATION

With the celebration of its 50th anniversary, Missouri Southern State College renews its commitment to provide the best possible undergraduate education to the people it serves. This catalog is dedicated to **THE PEOPLE OF SOUTHWEST MISSOURI** whose foresight and perseverance brought first a two-year and then a four-year college into being. Their loyalty and support continue to inspire the administration, faculty, and students of Missouri Southern State College.



OUR MISSION

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to the liberal arts, to professional and pre-professional programs, and the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of General Education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, historical, mathematical, scientific, and value perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

1. periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
2. continually assess the effectiveness of its programs in order to ensure their quality and integrity.

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BOARD OF REGENTS

William Putnam	1987
W. Terry James	1988
Robert Higgins	1989
Russell G. Smith	1990
John O. Phelps	1991
Gilbert Roper	1992

BOARD OF TRUSTEES

Fred G. Hughes
Arthur Kungle, Sr.
Carolyn D. McKee
Donald R. Patterson
Elvin Ummel
Jerry E. Wells

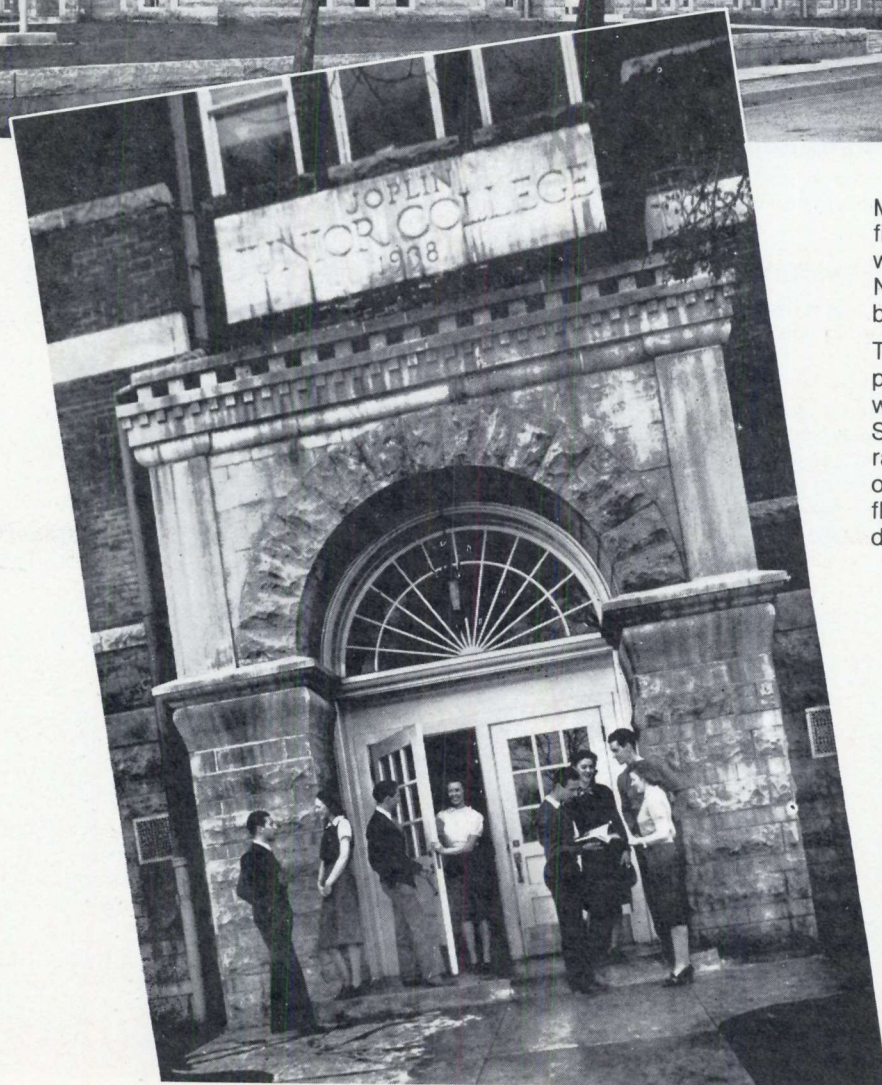
ACCREDITATION

North Central Association of Colleges
and Secondary Schools
National Council for the Accreditation
of Teacher Education
Missouri State Department of
Education
American Dental Association
American Medical Association
National League for Nursing

MEMBERSHIPS

American Association of State
Colleges and Universities
American Association of Colleges for
Teacher Education
North Central Association Sub-
Committee on Institutions for
Teacher Education
Council for the Advancement and
Support of Education
American Assembly of Collegiate
Schools of Business

COLLEGE HISTORY



Missouri Southern State College embodies fifty years of academic service to South-west Missouri and the surrounding region. Not a long history, granted, but a great beginning.

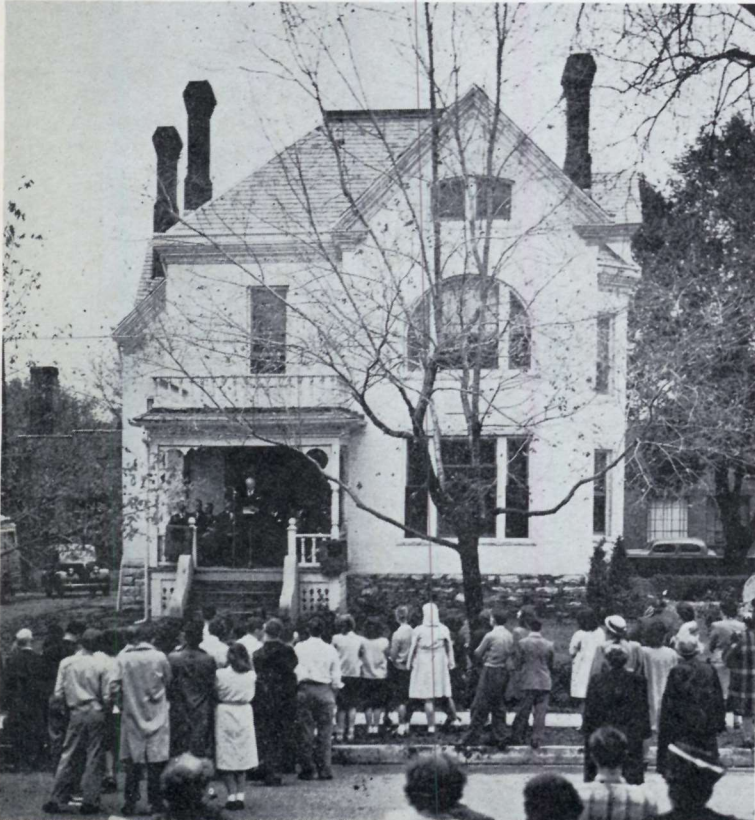
The college's first home, pictured in this page from the 1938 Crossroads yearbook, was in the remodeled former Joplin High School at 4th and Byers. The building was razed in 1960, but fond memories remain of its later years with creaking wooden floors and crumbling plaster sifting onto desks.





In the attentive classroom of 1938, students absorbed a "recitation" on the proper writing methods in English Composition and Rhetoric I.

Blaine Hall, named for the first dean, was dedicated as the first student union on November 1, 1946. The house at 5th and Byers housed the newspaper and yearbook offices, cafeteria and dining room, and the first Lion's Den.

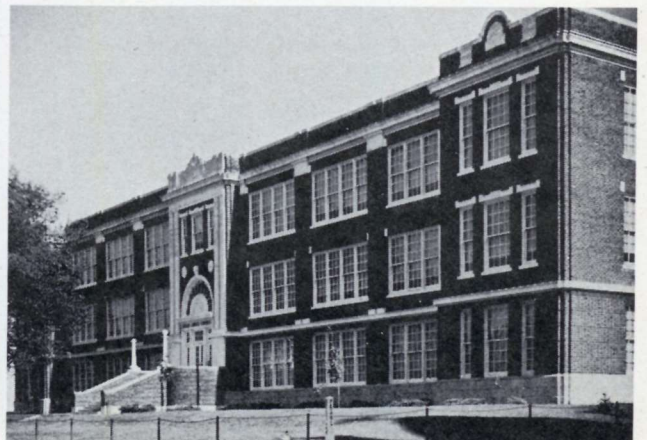


The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multi-discipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

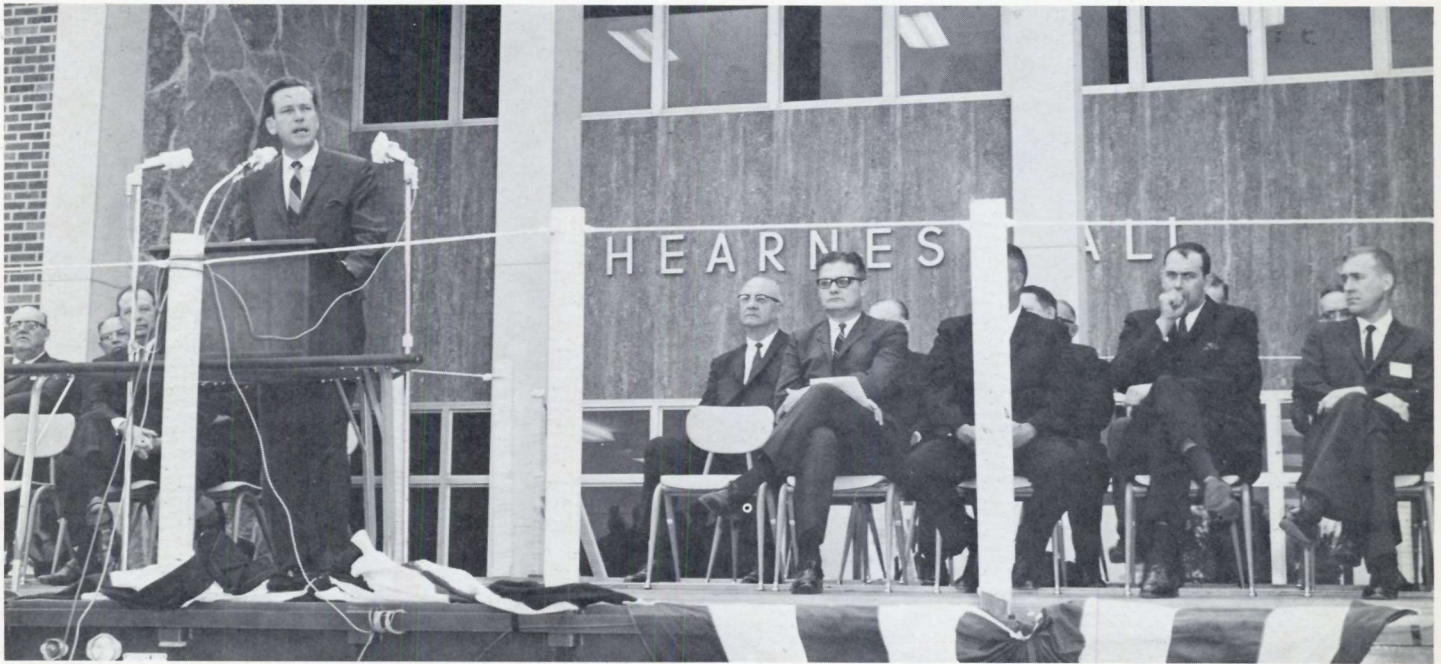
In the spring of 1938, voters approved almost five to one a bond proposal that would assure the continuation of the junior college. That fall, in the newly remodeled former high school building at Fourth and Byers, 300 students joined 23 faculty to begin a new era in education in Joplin.

During the next twenty-five years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid 1960s, citizens again recognized the need for expanded educational opportunities. In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College.

With the opening of a new high school in 1958, Joplin Junior College moved to the vacated school building at 8th and Wall.



COLLEGE HISTORY

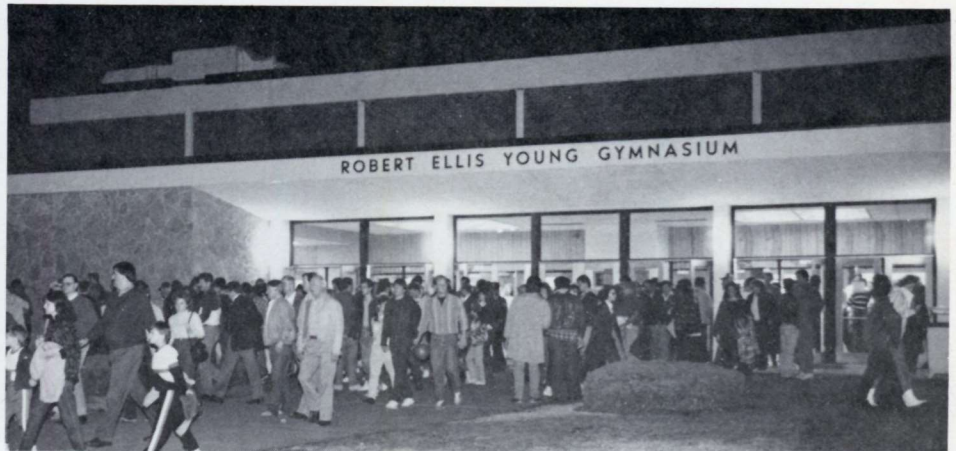


Governor Warren E. Hearnes (above) addressed the crowd that gathered for the dedication of the new campus of Missouri Southern College on October 29, 1967. Because of the unwavering support which Hearnes gave during the legislative process to create the college, the main administrative building on campus bears his name.

In 1977, Governor Christopher S. Bond came to campus and signed the bill which gave full state funding on July 1 to all four years of the college, thus creating Missouri Southern STATE College. Proud members of the Board of Regents, (Fred G. Hughes, Mills Anderson, Norval Matthews, and Jerry Wells) looked on.

Senator Richard M. Webster (below left) and Representative Robert Ellis Young (below), both of Carthage, were among the dreamers who in 1962 conceived the idea of expanding the junior college into a four-year institution. Their perseverance and persuasion in the legislature were the keys to bringing the dream to reality.

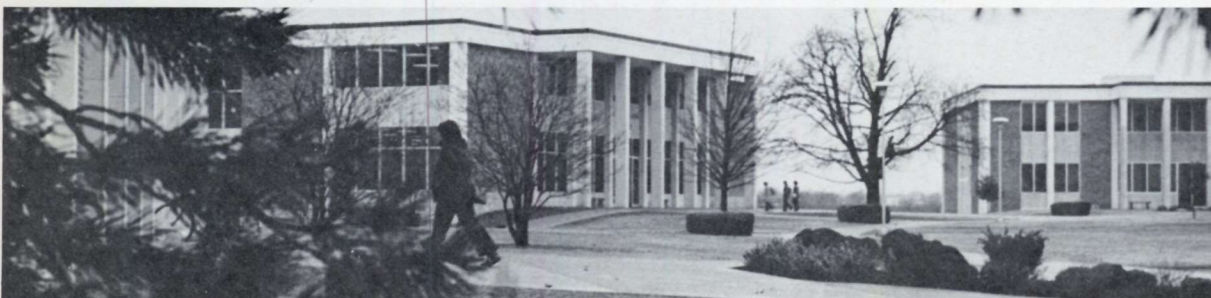
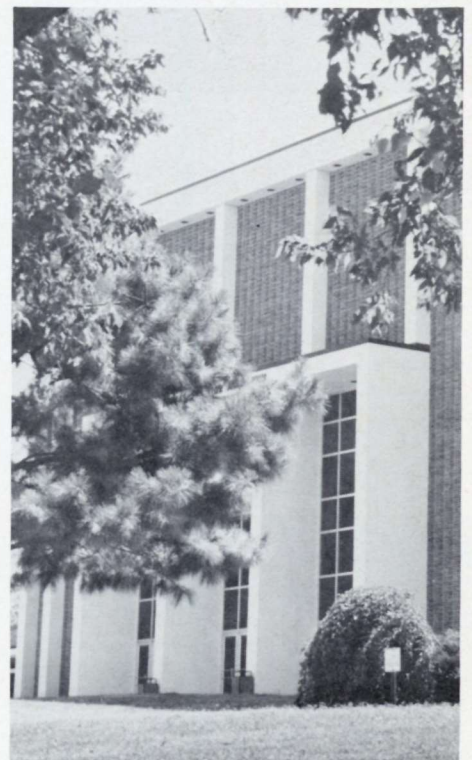




The following year, the Missouri General Assembly established a two year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support when citizens raised over \$300,000 to fund the purchase of the Mission Hills Farm and the building of a new campus to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.



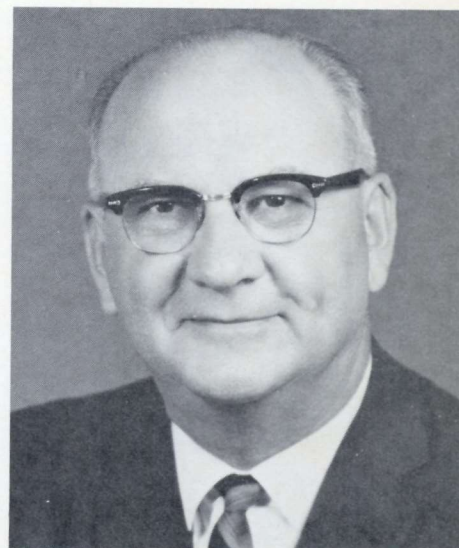
COLLEGE HISTORY



Dean H. E. Blaine



E. A. Elliot



Roi S. Wood

THE LEADERSHIP

Leadership has always been an integral part of the College's success. Joplin Junior College was under the aegis of the Board of Education of the Joplin School District. A. E. Elliot was superintendent of the District and was instrumental in the early development of J.J.C. The College's first dean, H. E. Blaine, served from 1937 to 1947. Roi S. Wood succeeded Elliot as superintendent, working closely with col-

lege officials through the years as the junior college continued to grow and to develop its national reputation.

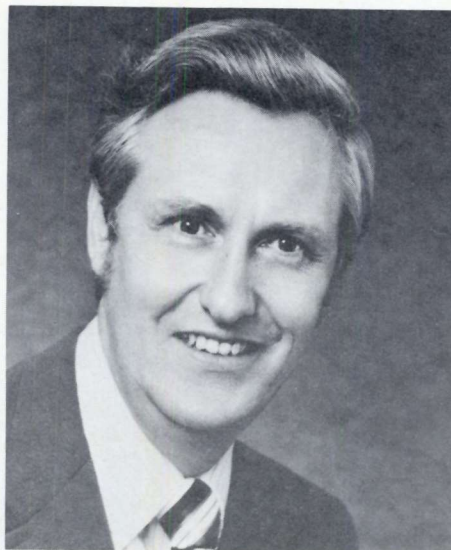
When Leon C. Billingsly became dean of the College in 1961, the dream of a four-year college was already beginning to take shape. Under his leadership in the academic, legislative, and public relations arenas that dream became a reality. In 1967, Billingsly became the first president of Missouri Southern State College.

Following Billingsly's death in 1978, Donald C. Darnton served as president until 1982, leading the College during a time of financial hardship for institutions around the state.

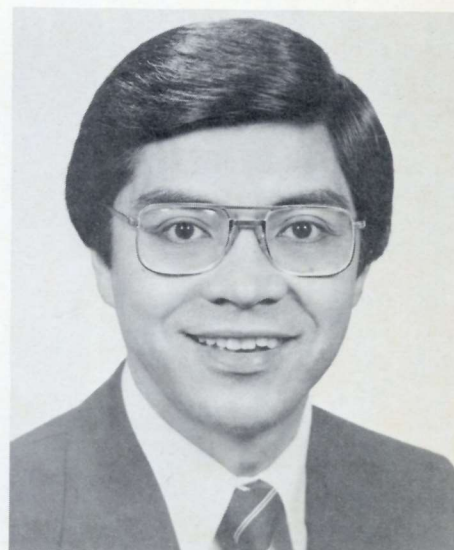
Today that leadership has passed to Julio S. Leon, who is continuing the commitment to excellence, envisioning and implementing programs that will help the College proceed as a vital and progressive institution into the next century.



Leon C. Billingsly



Donald C. Darnton



Julio S. Leon

JOPLIN BOARD OF EDUCATION, 1937:
Herbert Wheeler, Charles Wells, E. A. Elliot,
S. A. Harris - board president, Mrs. Etta B.
Garlock - secretary, Miss Fern Gray - clerk,
Cliff K. Titus, Clifford Casey.



FIRST BOARD OF TRUSTEES (center):
Thomas Taylor, Lauren Reynolds, Fred G.
Hughes, Gene Taylor, Norval M. Matthews,
Elvin Ummel.



THE GOVERNING BOARDS

The Board of Education of the Joplin School District brought the Junior College into being, and was its first governing board. With the formation of the four-year college, a new Board of Trustees was elected by the people of Jasper County to administer the bond issue money which was to fund the new campus and govern the freshman and sophomore years.

A Board of Regents was appointed by Missouri Governor Warren E. Hearnes who had given his full support to the legislation which created Missouri Southern. Those appointees were some of the same men who were serving as trustees, providing continuity as the two-year and four-year programs were growing and merging into one entity.

CURRENT BOARD OF REGENTS: (seated)
Robert Higgins, William Putnam Jr., W.
Terry James, Bill Bentz (student liaison);
(standing) Russel G. Smith, John O. Phelps,
Gilbert Roper



COLLEGE HISTORY



THE FIRST FACULTY, 1937: (seated) Ada Coffee, English; Martha McCormick, mathematics; Edna Drummond, biology, Dean of Women; H. E. Blaine, dean; (standing) E. O. Humphrey, coach; Armel Dyer, speech and English; Eugene A. Henning, Spanish, Dean of Men; Frank Coulter, music; C. J. Sommerville, chemistry.

THE FACULTY

The first faculty, nine members strong, set a standard for teaching excellence which continues to this day. Several of those first teachers continued their careers into the four-year college era. Their legacy is a precious one.

Today over 200 full time and part time faculty continue the tradition of individual attention and careful guidance which was a hallmark of J.J.C.

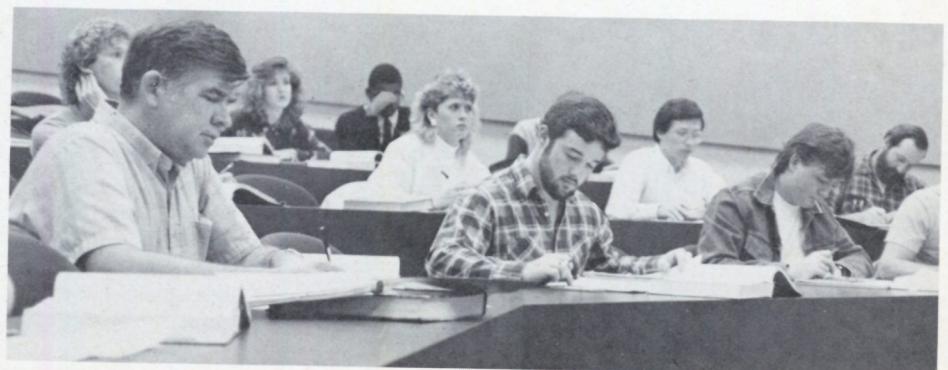
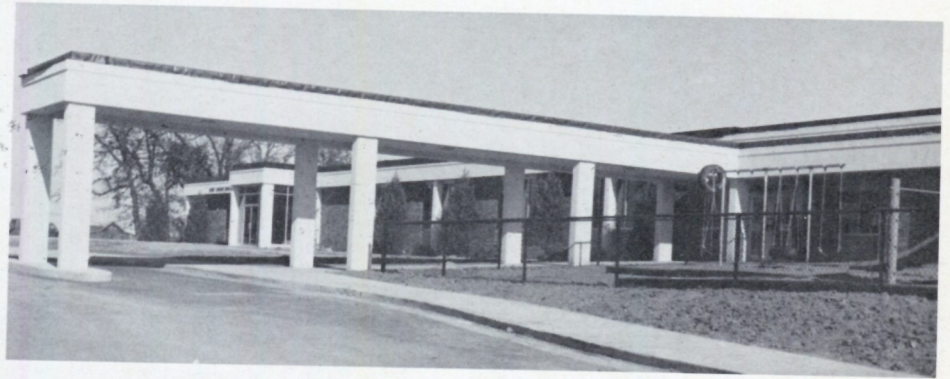


THE CAMPUS

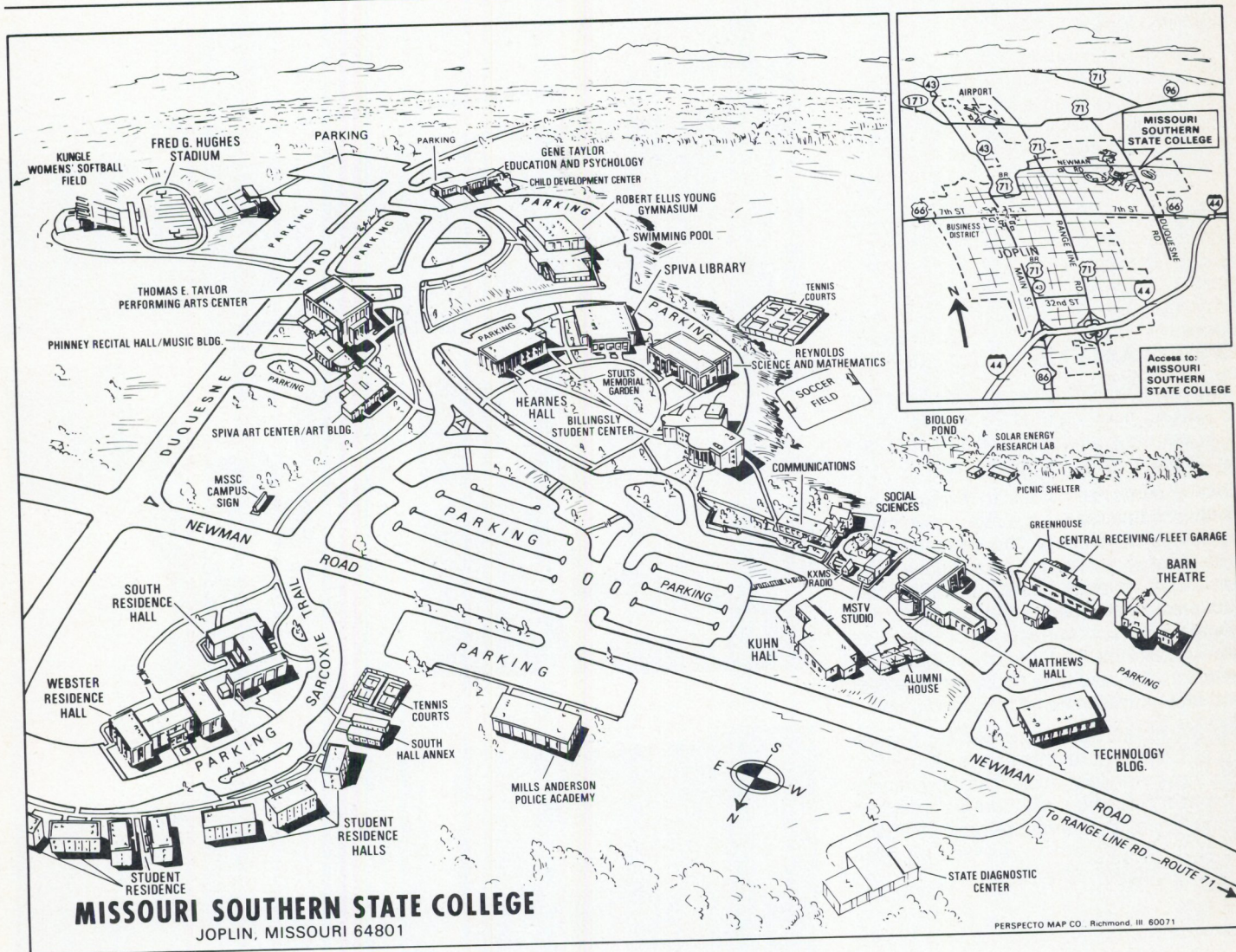
The campus, which began with six major buildings, now features 23 modern facilities set on a landscaped hilltop that is a showplace of the four-state area.

The campus continues to expand, with additions that double the size of two major buildings. Taylor Hall, the education and psychology building, has added a child development center which provides care for children of students and faculty as well as teaching and learning opportunities for early childhood education students. In addition, the new wing houses a computer lab and an instructional television studio.

Matthews Hall now has grown big enough to accommodate the entire School of Business Administration. The new facility boasts a 300 seat auditorium equipped for audio-visual presentations and telecommunications programs, as well as additional computer labs.



CAMPUS DIRECTORY



LOCALE

The campus of Missouri Southern State College is located on 320 acres of the historic Mission Hills Farm at the northeast edge of Joplin. The former Mansion House and the old barn are still at integral part of the campus.

The College is in the center of a service area of approximately 350,000 people including parts of Arkansas, Kansas and Oklahoma. This four-state area has highly diversified businesses and industry. In

Joplin, cultural and recreational activities, major medical centers, and churches for all faiths abound. Within easy driving distance are large metropolitan centers and the great recreational area of the Ozarks.

CAMPUS DIRECTORY

Central Switchboard (417) 624-8100
For admissions and financial aid information call MO toll free 1-800-492-4811
Hours: 7:30 a.m.-9 p.m. Mon-Thur
7:30 a.m.-5 p.m. Friday
Summer Hours: 7 a.m.-5 p.m. Mon-Thur
Closed Fridays.

Admissions	625-9378
Admissions (24 hours)	782-6772
Alumni-Development	625-9396
Athletics, Men.	625-9317
Athletics, Women	625-9316
Bookstore	625-9380
Business Office	625-9381
Computer Science/ Assistant Dean, School of Technology	625-9383
Continuing Education	625-9384
Dean of Arts & Sciences	625-9385
Dean of Business	625-9319
Dean of Education & Psychology, Teacher Certification	625-9314
Dean of Technology	625-9328
Education Department	625-9309
Financial Aid & Scholarships ..	625-9325
Grammar Hotline	624-0171
Library	625-9386
Mathematics & Sciences	625-9376
Missouri Southern Foundation	625-9396
MSTV	625-9375
Music Department	625-9318
Placement Office	625-9343
President's Office	624-8181
Public Information	625-9399
Registrar & Records	625-9389
Safety & Security	625-9391
Student Activities	625-9320
Student Services	625-9392
Swimming Pool & Racquetball.	625-9390
Theatre	625-9393
Vice President, Academic Affairs	625-9394
Vice President, Business Affairs	625-9395

Stations on Direct Inward Dial and other offices may be reached through the central switchboard.

ALUMNI HOUSE

Missouri Southern Foundation
Alumni Office

BARN THEATRE

CAB movies
Student directed shows
Special performances
Seminars

CAMPUS HOUSING

Webster Hall
South Hall
Residence Halls (seven)
Women's Annex

FRED G. HUGHES STADIUM

7500 seat grandstand
Astro-Turf field
All-weather track

FINE ARTS COMPLEX

Art Building
Art department
Spiva Art Center of Joplin
Metal foundry
Music Building
Music department
Edward S. Phinney Recital Hall
Thomas E. Taylor Auditorium
Theatre department
Scene and costume shops
Green room
2100 seat auditorium

GENE TAYLOR HALL

Dean of Education and Psychology
Education department
Psychology department
Experimental psychology lab
Child Development Center
Instructional television studio

HEARNES HALL

President
Dean of Arts and Sciences
Academic Affairs
Business Affairs
Admissions
Financial Aid
Registrar
English department
Newspaper/yearbook office
Office Services

KUHN HALL

Nursing department
Student Health Center

LEON C. BILLINGSLEY STUDENT CENTER

Conference rooms
Ballrooms
Cafeteria
Lion's Den snack bar
Student lounge
Bookstore
House of Lords dining room
Placement Office
Student Services Office
Campus Activities Board Office
Student Senate Office
Public Information Office

L. R. REYNOLDS HALL

Biology department
Physical Science department
Mathematics department

MILLS ANDERSON POLICE ACADEMY

Dean of Technology
Campus Security Office
Law Enforcement department
R.O.T.C. department
Regional Crime Laboratory
Photography lab

MISSION HILLS MANSION COMPLEX

Communications department
Social Sciences department

NORVAL M. MATTHEWS HALL

Dean of School of Business
Administration
School of Business Administration
Industrial Arts department
Computer Science department
Office Administration program
Computer center
IBM-PC labs

ROBERT ELLIS YOUNG GYMNASIUM

Basketball court
Physical Education department
Olympic indoor swimming pool
Racquetball courts

SPIVA LIBRARY

170,000 volume library
Audio Visual Media Center
Learning Center

TECHNOLOGY BUILDING

Manufacturing technology department
Drafting and Design department
Dental Hygiene department

CALENDAR

June 1987

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July 1987

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August 1987

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September 1987

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October 1987

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November 1987

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1987 Summer Semester

June 1 Day & Evening Registration
 June 2 Classes Begin
 June 8 Last Day for Class Changes and Late Registration
 June 17 Withdrawal After This Date No Refund of Fees
 June 24 Last Day to Drop with a "W"
 July 2 4th of July Holiday
 July 23 Last Day of Classes
 July 24 Final Examinations

1987-88 Fall Semester

August 20 Faculty Study Conference
 August 20 Day Registration and Evening Registration
 August 21 Day Registration
 August 24 Classes Begin
 September 4 Last Day for Class Changes & Late Registration
 September 7 Dismissal for Labor Day
 September 14 Withdrawal After This Date No Refund of Fees
 October 26 Last Day to Drop with a "W"
 November 25-27 Dismissal for Thanksgiving Holiday
 November 30 Classes Resume
 December 15 Last Day of Classes
 December 16 Open (No Classes - No Finals)
 December 17-22 Final Examinations
 December 22 End of Semester

1987-88 Spring Semester

January 7 Faculty Study Conference
 January 7 Day and Evening Registration
 January 8 Day Registration
 January 11 Classes Begin
 January 20 Last Day for Class Changes & Late Registration
 January 27 Withdrawal After This Date No Refund of Fees
 March 10 Last Day to Drop With a "W"
 March 14-18 Spring Break
 May 4 Last Day of Classes
 May 5 Open (No Classes—No Finals)
 May 6-11 Final Examinations
 May 11 End of Second Semester
 May 14 Commencement

1988 Summer Semester

June 6 Day & Evening Registration
 June 7 Classes Begin
 June 13 Last Day for Class Changes and Late Registration
 June 22 Withdrawal After This Date No Refund of Fees
 June 29 Last Day to Drop with a "W"
 July 4 4th of July Holiday
 July 28 Last Day of Classes
 July 29 Final Examinations

December 1987

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January 1988

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February 1988

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April 1988

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June 1988

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July 1988

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August 1988

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September 1988

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November 1988

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1988-89 Fall Semester

August 18 Faculty Study Conference
 August 18 Day and Evening Registration
 August 19 Day Registration
 August 22 Classes Begin
 September 2 Last Day for Class Changes & Late Registration
 September 5 Dismissal for Labor Day
 September 12 Withdrawal After This Date No Refund of Fees
 October 24 Last Day to Drop with a "W"
 November 23-25 Dismissal for Thanksgiving Holiday
 November 28 Classes Resume
 December 13 Last Day of Classes
 December 14 Open (No Classes - No Finals)
 December 15-20 Final Examinations
 December 20 End of Semester

1988-89 Spring Semester

January 5 Faculty Study Conference
 January 5 Day and Evening Registration
 January 6 Day Registration
 January 9 Classes Begin
 January 23 Last Day for Class Changes & Late Registration
 January 30 Withdrawal After This Date No Refund of Fees
 March 10 Last Day to Drop with a "W"
 March 13-17 Spring Break
 May 3 Last Day of Classes
 May 4 Open (No Classes - No Refunds)
 May 5-10 Final Examinations
 May 10 End of Second Semester
 May 13 Commencement

December 1988

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January 1989

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February 1989

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April 1989

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FEE POLICIES

SCHEDULE OF FEES

Students must pay fees at the regular time of registration each semester or have their registration automatically cancelled. Contractual agreements for unique hardship problems must be arranged with the Vice President for Business Affairs or his delegated representative prior to registration. Failure to meet the terms of the agreement automatically cancels the registration. Appeals concerning special problems pertaining to fees or refunds should be directed to the Vice President for Business Affairs in Hearnese Hall 200.

THE COLLEGE RESERVES THE RIGHT TO CHANGE FEES WITHOUT NOTICE.

INCIDENTAL FEES

	Missouri Resident	Non-Resident
Fall & Spring		
1 through 12 hours	\$36.00 per hour	\$72.00 per hour
13 and above	\$26.00 per each additional hour	\$26.00 per each additional hour
Summer Session 88	\$36.00 per hour	\$72.00 per hour

OTHER FEES

Application for Admission	\$10
Applied Music	\$45 per cr.hr.
Art Materials (Ceramic, sculpture, jewelry, selected)	\$10
Change of Class Schedule	\$5
Commencement	\$20
Laboratory Breakage and Materials	cost
Late Registration (full-time)	\$10
(part-time)	\$5
National Teachers Examination (required for BSE major)	\$20
Radiologic Technology Special Fees	
First term	\$100
All other terms, each	\$40
Student Activity	\$20
Textbook Rental and Service Charge	
(\$25 refundable full-time;	
\$5 per course part-time)	
Spring and fall semester	\$60
(12 hours or more)	\$12 per course
(Under 12 hours)	\$12 per course
Summer term	\$1
Transcript (first 2 without charge)	
Residence Hall Cost (per semester)	\$938
Refundable Security Deposit	\$75

Residence Hall charges may be paid in full or in three installments per semester. If the installment plan is chosen, a \$10 administrative charge will be assessed and the following schedule will be observed.

Fall Semester		Spring Semester	
August 1	\$316	January 1	\$316
September 15	\$316	February 15	\$316
October 15	\$316	March 15	\$316

Application for Admission A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

Applied Music For one 30-minute lesson per week in applied music, the usual fee is \$45 per credit hour.

Art Materials This fee provides for materials such as clay, glazes, waxes, solder, and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors, or oils.

Change of Class Schedule Students are charged \$5 for each class change made after classes begin (refer to College Calendar). Students registered for 12 or more credit hours before and after the change in schedule will pay only the \$5 fee. Those changing from 11 or less hours to 12 or more hours must pay the full incidental and textbook fees and the \$5 change fee. Those who are registered for 12 or more hours and change to 11 or less hours during the change-of-registration week will receive a refund and will be charged by the credit hour.

Commencement Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown, and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

Evening Session Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the Day Session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

Laboratory Breakage and Materials There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects. Students enrolled in chemistry are required to purchase a laboratory breakage card which may be redeemed for this full amount at the end of the semester, providing there has been no breakage or loss caused by the student.

Late Registration A late registration fee is charged students who register after classwork begins. This fee is not refundable.

Miscellaneous Fees Occasionally a fee is charged for classroom materials, such as subscriptions to a periodical, line charges for bowling in physical education, film developing in photo journalism, or purchase of paperback books in addition to the textbook rental.

Student Activity This charge is to support activities of the Student Senate, the Campus Activities Board, and the Yearbook. An activity card for part-time students or for spouses of students also is available at the Business Office for a fee. This card will allow admittance to most sports, theatre, and music events of the College, although these activities are funded from other sources.

Summer Session Rules and regulations which govern admission to the first and second semester during the regular school year shall apply to the Summer Session.

Textbook Rental and Instructional Services Students enrolled during a semester in 12 or more credit hours pay a nonrefundable textbook rental fee (includes normal laboratory fees and cost of service on instructional equipment) and a textbook deposit. Students enrolled in less than 12 credit hours during any semester pay a deposit and a rental for each course in which they are enrolled. The deposit is refunded when the student has returned all books, materials, and equipment in satisfactory condition. (See page for fees and refunds.) Books may be purchased at the end of the term for full retail price less an allowance for rental charges paid by the student.

Transcripts Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each transcript.

EQUAL OPPORTUNITY

Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex, or age in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of any of its programs and activities, as specified by Federal laws and regulations. The Assistant to the President is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and the Age Discrimination Act of 1967.

HANDICAPPED ACCESS

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Assistant to the President, who in conjunction with the office of the Vice President for Academic Affairs will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President.

DIRECTORY INFORMATION

Missouri Southern maintains directory information on each student which includes name, address, telephone number, date and place of birth, next of kin, or spouse (emergency only), major field of study, dates of attendance, degrees and awards received and the most recent previous educational institution attended. In accordance with federal law, this information may be released unless the student informs the College that such information may not be released without the student's prior consent.

CORRESPONDENCE

REFUND POLICY (Except for Residence Hall Charges)

Students enrolled in the fall and spring semester who drop out of the College before the sixth week of the semester are entitled to a partial refund of refundable fees. Refunds for partial drops will be computed using the same percentages. The refund must be claimed during the term for which the refund applies. The refund will be computed as of the date the Registrar receives the withdrawal form completely and correctly executed, not as of the date the student stops attending classes.

The refund schedule is as follows:

Within the first and second weeks	80 percent refund
From the third through the fifth week	50 percent refund
After the fifth week	No refund
Refunds for the summer term are as follows:	
Within the first and second weeks	80 percent refund
The third week	50 percent refund
After the third week	No refund

Students are eligible for refunds only if they have followed official withdrawal procedures in the Registrar's office. Failure to attend classes does not constitute a withdrawal.

If the student has paid college costs and there is a refund, these monies will be refunded directly to the student after all charges have been applied to the account. However, if the College costs have been paid partially or fully by financial aid (scholarship, grant, or loan) or another source (i.e. Vocational Rehab), the refund will be returned to that financial aid or source up to 100 percent of the original aid amount. After restoring the financial aid or other source to its original amount, any excess of refund monies will be returned to the student.

Students who feel that individual circumstances warrant exceptions from this policy may appeal in writing to the Vice President for Business Affairs. This appeal must be made during the term for which the refund applies.

CORRESPONDENCE DIRECTORY

Missouri Southern State College • Joplin, MO 64801-1595
(417) 624-8100

24 hr. answering service 782-MSSC

For admissions and financial aid information in Missouri toll free 1-800-492-4811

Admission of students	Director of Admissions
Alumni affairs	Director of Alumni Affairs
Athletic activities	Director of Athletics
Business affairs and purchases	Vice President for Business Affairs
Catalog and bulletins	Director of Admissions
Credit evaluation and transcripts	Registrar
Evening session	Vice President for Academic Affairs
Faculty appointments	Vice President for Academic Affairs
Financial aid	Office of Financial Aid
Gifts and annuities	President
Housing	Director of Housing
Loans	Office of Financial Aid
News/publications	Director of Public Information
Orientation	Director of Orientation
Placement services	Director of Placement Services
Student employment	Office of Financial Aid
Student organizations	Assistant Dean of Students
Summer session	Vice President for Academic Affairs
Testing	Director of Counseling
Veterans affairs	Veterans Counselor

STUDENT SERVICES



First Student Senate, 1938



DEPARTMENT OF STUDENT SERVICES

VICE PRESIDENT

Glenn D. Dolence

STAFF

Beard; Binns; Carnahan; Chism; Freund; Frazier; Freeman; Gilbert; Hartley; Humphrey; Karst; Miner; Mouser; Nemeth; Rice; Rogers; Vermillion; Williams; Wright

PURPOSE AND OBJECTIVES

The staff of the Department of Student Services, realizing that all education does not take place in the classroom, provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling and Testing, College Orientation, Residence Life, Student Activities, Student Health Services and Intercollegiate Athletics. (For admissions requirements and procedures, see page 31 under Academic Regulations.)

With the goal of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students in the following ways:

1. providing a campus climate in student residence and campus affairs which is conducive to academic achievement;
2. providing services which will assist in the self-development of each student and promote the understanding of their own purposes for being in college;
3. providing through student government, student organizations, and other activities an opportunity to practice democratic living with both rights and responsibilities and to learn to work effectively and cooperatively with others;
4. providing an opportunity for those individuals who are capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans, and employment;
5. helping each student develop a sense of individual responsibility and self-discipline;
6. interpreting college objectives, policies, and rules to students and communicate student attitudes, opinions and activities to the faculty, administration, and general public;



The Lion Pride Marching Band brings the crowd to its feet with their rousing half-time shows. Music students develop their talents in a variety of other performing groups as well.

7. providing student health services that meet the emergency and temporary medical needs of all students;
8. providing an opportunity for students to gain information about the world of work and job opportunities; and
9. providing assistance and direction in matching student qualifications with job requirements.

COLLEGE ORIENTATION

To assist all new students in the transitions to college life, the College has designed an orientation program to help them become acquainted with college personnel, college services, policies, and procedures. The program operates in small group settings with peer leaders to provide open discussion of all factors that contribute to a successful college career. The eight-week course is offered at the beginning of fall and spring semesters and includes the assignment of an academic advisor for each student. Members of the Student Services staff serve as academic advisors for students who have not declared an academic major. Special counseling programs are available for transfer and non-traditional students. The Orientation office

is located in the Central Student Services Office, Suite 211, Billingsly Student Center.

FINANCIAL AID

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend College. These funds—from private, institutional, state, and federal sources—are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability, and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued aid. No financial assistance is available to foreign students through the college. Foreign students are required to present a financial statement certifying that they have sufficient funds to pay for all educational expenses. Information in this catalog regarding Financial Aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.

How to Apply for Financial Aid

1. All applicants should send the completed American College Testing Program Family Financial Statement to the ACT Operations Center in Iowa City Iowa, designating Missouri Southern (code 2304) to receive a copy of this report. This statement will generate a Pell Grant, Missouri Grant, and a comprehensive financial aid report.
2. Applicants should bring or mail all three copies of the Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
3. Applicants should bring or mail a signed copy of their own or their parents' 1040 Income Tax Form to the Financial Aid Office. (This document must be on file before any money will be disbursed to the student.)
4. Applicants for work, loans, or other grants, should complete the Missouri

Southern application which is included in the Family Financial Statement and return it to the Financial Aid Office. As soon as the necessary documents are on file, an award will be made.

5. Applicants for scholarships should complete the application enclosed in the ACT packet and return it to the Financial Aid Office prior to April 1.
6. Transfer students must obtain and submit transcripts of financial aid for each college previously attended.
7. Applicants for special programs should contact the Financial Aid Office for instructions.

ter, the student automatically will be placed on financial probation for spring semester. If satisfactory progress is made during fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies.

After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the college catalog, (page 42) Standards of Progress Toward Graduation. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

Policies and Regulations

Academic Standards

The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semes-



In the micro-teaching lab, students film classroom presentations for evaluation, a valuable tool in seeing themselves as their students may see them.

FINANCIAL AID PROGRAMS

Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 27 on the ACT Placement Test	Award depends on test score. Full tuition and fees for score of 27; full tuition, fees, room and board for 32 or higher	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking students in each accredited high school in the college's service area	Current award is approximately 72% of instate tuition based on 12 hours	Upon recommendation of high school counselor, scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 23 composite score or higher on the ACT	Current award is approximately 66% of instate tuition based on 12 hours	Have ACT Placement Test scores sent to Counseling Office.
Deans' Scholarships*	High school graduates who rank in the upper 10% of their graduating class and have a composite ACT of 19 or above. The Deans' Scholarship can not be used in conjunction with the President's, Regents' or Honors Program Scholarships.	Current value is approximately 49% of instate tuition based on 12 hours	Contact your high school counselor.
Junior College Transfer Scholarships*	Junior college graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a junior college	Current award is approximately 66% of instate tuition based on 12 hours	Complete a Junior College Transfer Application
Patron's Scholarships	Criteria established by individual donors	Awards range from \$50 to \$800 as determined by individual donors	Applications available in Financial Aid Office. Application deadline <u>April 1</u>
Performing Aids Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, or soccer	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board.	Apply directly to the director or sponsor of particular activity
ROTC Scholarships	Outstanding students enrolled in Military Science	One-year, two-year, and three-year scholarships for tuition, lab fees, on-campus educational fees, and incidentals, plus up to \$1,000 tax-free subsistence allowance each school year.	Applications available from the Military Science Department

FINANCIAL AID PROGRAMS

*Students receiving President's, Regents', Deans', and Junior College Transfer scholarships must complete at least 12 hours with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

Grants	Who Is Eligible	How Much	How to Apply
Pell Grant	Federal Aid program based on financial need. All students should apply	Grants range from \$200 to \$2300 depending on where the student lives and educational costs	Complete American College Testing Programs Family Financial Statement or regular Pell Grant application
Missouri Student Grant	State funded program for Missouri residents; based on financial need	Maximum grant not to exceed one-half the cost of tuition and fees	ACT Family Financial Statement. Application deadline <u>April 30</u>
Supplemental Educational Opportunity Grants (SEOG)	Students with exceptional financial need	Grants range from \$100 to \$4000 per academic year	ACT Family Financial Statement and Missouri Southern Financial Aid Application. Application deadline <u>April 30</u>
Nursing Grant	Students who have been accepted in the Nursing Program; based on financial need	Grants range from \$200 to \$1500 per academic year	ACT Family Financial Statement and Missouri Southern Financial Aid Application. Application deadline <u>April 30</u>
Missouri Teacher Education Scholarship	Upper 15% of graduating class or score in the upper 15% on recognized exam	\$2000 per year	Missouri Teacher Education Scholarship application available in the Financial Aid Office
Employment Programs	Who is Eligible	How Much	How to Apply
Work Study Program	Federally funded program providing on-campus employment for students with financial need	Minimum wage; weekly hours based on need	ACT Family Financial Statement and Missouri Southern Financial Aid application. Application deadline <u>April 30</u>
Student Help Program	On-campus employment for students who are qualified to fill job openings	Hourly wage; no limit on weekly hours	Apply to Financial Aid Office or to individual departments on campus

FINANCIAL AID PROGRAMS

Loans	Who Is Eligible	How Much	How to Apply
Carl D. Perkins National Direct Student Loans (NDSL)	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Interest free loans repayable at 5% interest, \$30 per month, beginning nine months after student leaves school; deferrals for military service, Peace Corps, or Vista	Complete ACT Family Financial Statement, Missouri Southern Finan- cial Aid Application, Pell Grant Application; send copies of student's or parents' 1040 Income Tax forms to Financial Aid Of- fice. Deadline <u>April 30</u>
Guaranteed Student Loans	All students who demonstrate financial need and have completed appropriate documentation as required by Federal regulations	Funds to cover balance of educational costs after other awards have been made; 8% interest, \$50 per month repayment six months after student leaves school	Applications and special instructions available in Financial Aid Office. MSSC Application. Com- plete ACT Family Financial statement, send 1040 in- come tax forms to Finan- cial Aid Office.
Nursing Loans	Students accepted in the Nursing Program who demonstrate financial need	Maximum \$2500 per year; interest at 6% begins six months after student leaves school	Applications available in Financial Aid Office. Ap- plication deadline <u>April 30</u>
Short-term Tuition Loans	Short-term assistance for full-time students for pay- ment of tuition and fees	Up to 50% of tuition and fees; all loans due and payable by the fifth week of the semester, (fourth week of summer term)	Applications available in the Financial Aid Office
Missouri Prospective Teacher Loan	Regular student; U.S. citizen or permanent resi- dent making satisfactory progress in a teacher education program; junior in college with 3.0 gpa; no previous B.A. degree.	\$1000 per year	Missouri Prospective Teacher loan application available in the Financial Aid Office

FINANCIAL AID PROGRAMS

Other Assistance	Who Is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded	Applications available in the Financial Aid Office
Agricultural Loans	Missouri residents whose parents derive a portion of their income from farming or fishery	Loans at 8% interest, payable at \$50 per month beginning nine months after graduation	Contact: Missouri Department of Agriculture P.O. Box 630 Jefferson City, MO 65101
Veterans' Administration Benefits	Veterans who entered the military before Jan. 1, 1977, and served more than six months active duty, have been out of the service less than 10 years, and have other than dishonorable discharge. Also, veterans with service-connected disability of 10% or more and wives, husbands, and children of veterans who have total and permanent disability and widows, widowers, and children of veterans who died of service-related causes	\$342 per month for single veterans who are full-time students; increases for dependents	Contact: Veterans' Administration Officer, Veterans' representative on campus, or Veterans' Administration regional Office
Social Security Benefits	Students between 18 and 22 who receive funds because of death, disability, or retirement of a parent or grandparent	Ranges from \$25 to \$350 per month depending on the worker's length of employment	Contact: Social Security Administration 123 Main Street Joplin, MO 64801
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood	Awards range from partial tuition to full tuition and fees	Contact: Bureau of Indian Affairs Higher Education Office Federal Building, Room 300 Muskogee, OK 74001
Vocational Rehabilitation	Students with any disability	Awards range from \$25 to full tuition, fees, room and board	Contact: Vocational Rehabilitation Office 1609 E. 20th Joplin, MO 64801

All financial assistance is subject to change without notice to meet federal regulations and availability of funds.

STUDENT SERVICES

The maximum time in which a student is eligible to receive financial assistance is as follows:

TABLE OF MAXIMUM SEMESTERS OF AID ELIGIBILITY

Degree	Full-Time	3/4 Time	Half-Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing an associate degree. All financial aid recipients must complete the appropriate number of hours depending on the category in which they enroll and receive payment.

Category	Hours per Semester	Hours to be Completed
Full-time	12 or more	21 hours per year
3/4 time	9 to 11	15 hours per year
Half time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, non-credit remedial courses, audited courses, and withdrawals. However, if withdrawal from a class results in a change in category, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.

All aid will terminate immediately under the following situations:

1. withdrawal from all classes;
2. failure to meet special requirements of academic progress imposed by the Financial Aid Committee; or
3. default on any federally funded student loan or on any Missouri Southern tuition loan.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major, or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major, or other extenuating circumstances. The Director will determine the validity of these circumstances provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

1. withdrawal from school;
2. a significant change in income;
3. added or dropped classes during the semester;
4. a name change;
5. change of address or change of parents' address;
6. transfer to another college.



Homecoming brings students from all majors together for a rousing celebration, a week long celebration culminating in the traditional parade and football game.

Work Study recipients must contact the Financial Aid Office for job placement within five (5) days of the beginning of the semester.

Financial aid letters of credit must be signed by the persons receiving aid. No other person may sign the letter of credit for the recipient.

Checks must be picked up in person by students presenting a student I.D.

Veterans must sign up for Veterans' Benefits at the beginning of each semester.

Students awarded Guaranteed Student Loans are responsible for procurement of loans from a lending agency.

Missouri Southern operates on a financial aid data entry system which requires the student's signature for any funds disbursed. After all fees and charges are paid, any balance of funds from a grant, loan, or other award is paid to the student at the end of the third week of school. Checks are issued in the Business Office; failure to pick up a check within two weeks of the date indicated by the Financial Aid Office may result in cancellation of the check.

COUNSELING CENTER

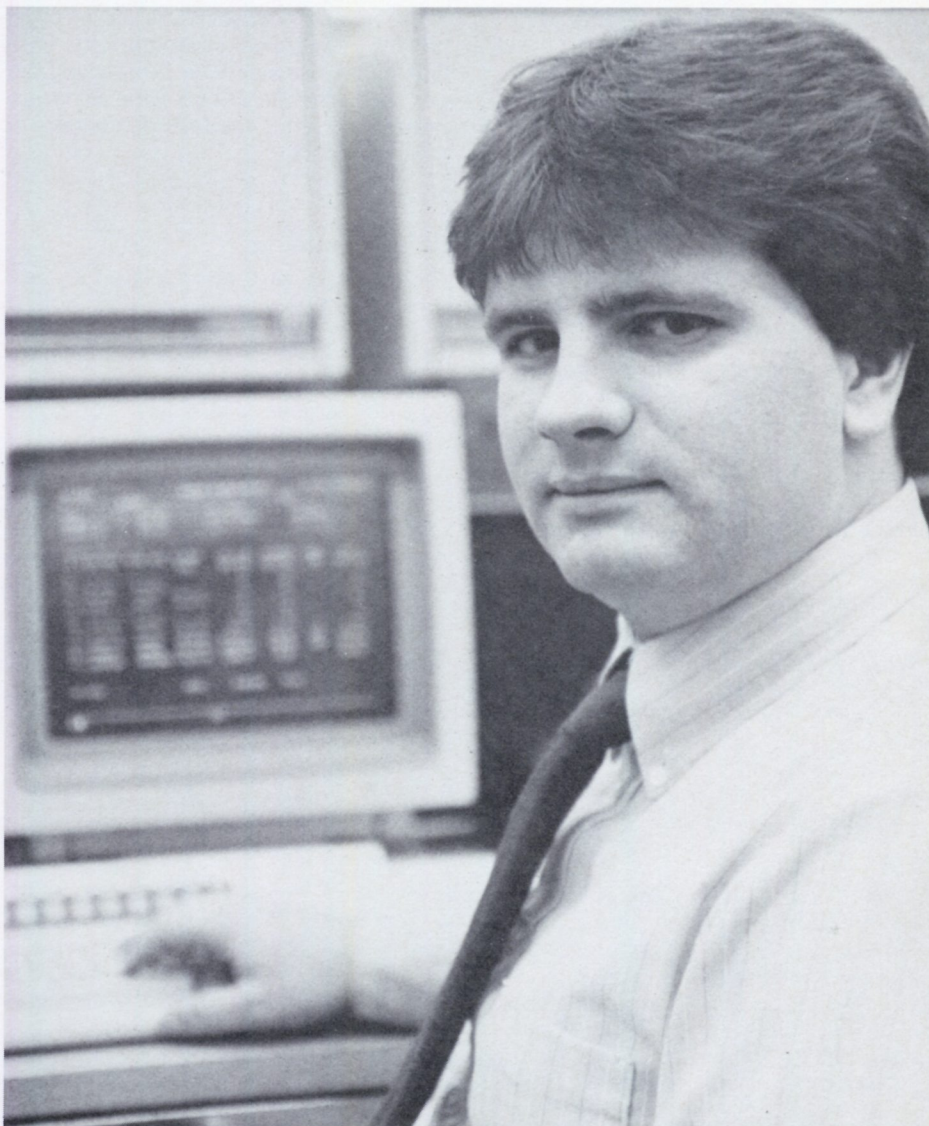
Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearn Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories, and referral services.

Testing Services

Testing services are available to prospective students as well as current students. Various standardized tests are administered and interpreted by professional personnel.

These tests include:

1. freshman placement tests (ACT tests, College Level Examinations Program Tests [CLEP], etc.);
2. interest inventories of educational or career preferences;
3. national tests for selected programs (Dental Hygiene Aptitude Tests [DHAT], National Teacher Exams [NTE], Entrance Examinations for Schools of Nursing [EESN], Miller Analogy Test [MAT]);



All students are required to be familiar with computer use as it applies to their particular major. There is plenty of opportunity to learn the skills.

4. GED (High School Equivalency) tests for the Missouri State Department of Education;*
5. Michigan Test of English Language Proficiency for international students;**
6. proctor examinations for students taking correspondence courses.

*The GED testing program is offered as a service to the people of southwest Missouri who were unable to complete a high school education. The person making an

acceptable score in the GED test will receive a high school equivalency diploma from the Missouri State Department of Education. Applications are available from the GED Test Supervisor in the Counseling Center.

**All international students, whose native language is not English, who transfer with 24 hours or more and who do not have a TOFEL score of 500, will take the Michigan Test which is available by appointment.

STUDENT SERVICES

Counselors for Special Students

Certified counselors and advisors are available for international students, veterans and handicapped students.

Information and forms required by the U. S. Office of Immigration and Naturalization are available from the international student advisor who is the certifying official for the college concerning immigration matters. Students should contact the international student advisor regarding visa renewal, transferring to other schools, etc.

The Veterans' Counselor is the certifying official for the college and the contact person for the Veterans' Tutoring Program under Chapters 31, 34, or 35. Veterans' enrollment must be certified each semester and the Veterans' Counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist physically handicapped students with early enrollment, assistance in overcoming barrier problems, Readers for the Blind Program, and other matters of concern to these students.

Career Planning

Students who have not declared an academic major or who are uncertain of their major may discuss career opportunities with a professional counselor. Interest and ability inventories are used by the counseling staff members and a library of career materials is available.

The DISCOVER program, a computer based guidance system, is designed to assist students in clarifying values, assessing competencies and interests, making

decisions, securing information on occupations, and selecting appropriate strategies to reach career plans.

Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. An advisor is available to assist returning adult students and workshops to ease the transition to college are offered periodically. A "Return to Learn" course is offered each semester as the orientation course for returning adult students. SAGE, an organization for adult students, assists the expanding adult segment of the student population. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearn Hall.



The student center cafeteria serves all-you-can-eat of a wide variety of foods, from a deli and salad bar, to full hot meals, to make your own sundaes.

STUDENT ACTIVITIES

The staff of the Student Activities Office work in close cooperation with the staff of the Billingsly Student Center, Student Services personnel, and the Campus Activities Board in providing a variety of services for students, faculty, and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

The Campus Activities Board (CAB), a volunteer organization made up of students and a student activity coordinator, has the responsibility for programming social, educational, and recreational activities for the entire college community. The CAB is funded from student activity fees. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events, and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

Student Government

The Student Senate serves as the governing body for students and acts as liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards, and committees but also with each member of the student body. The Student Senate is made up of the executive officers, who are elected in the spring, and nine senators from each class who are elected in the fall.

Placement Office

The Placement Office, located in Room 207 of Billingsly Student Center, provides many services to Missouri Southern students and graduates.

While enrolled in college, students may ask the staff for help in finding part-time employment. Prospective graduates and alumni may enlist the staff's help in finding full-time employment. Representatives of business, industry, and educational institutions are invited to the campus to interview students for possible job openings.



Classroom teaching is a part of "going on the block", the final semester of training for education majors. Public schools throughout the region provide that last vital experience for the new professional.

STUDENT SERVICES



Students do all the production work on the campus newspaper, **The Chart**, from writing and typesetting to layout and pasteup. The weekly publication has won many prestigious state, regional and national awards.

The Placement Office also maintains a career library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career.

RESIDENCE HALLS

The Missouri Southern on-campus residence requirement is as follows: All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Director of Student Life.

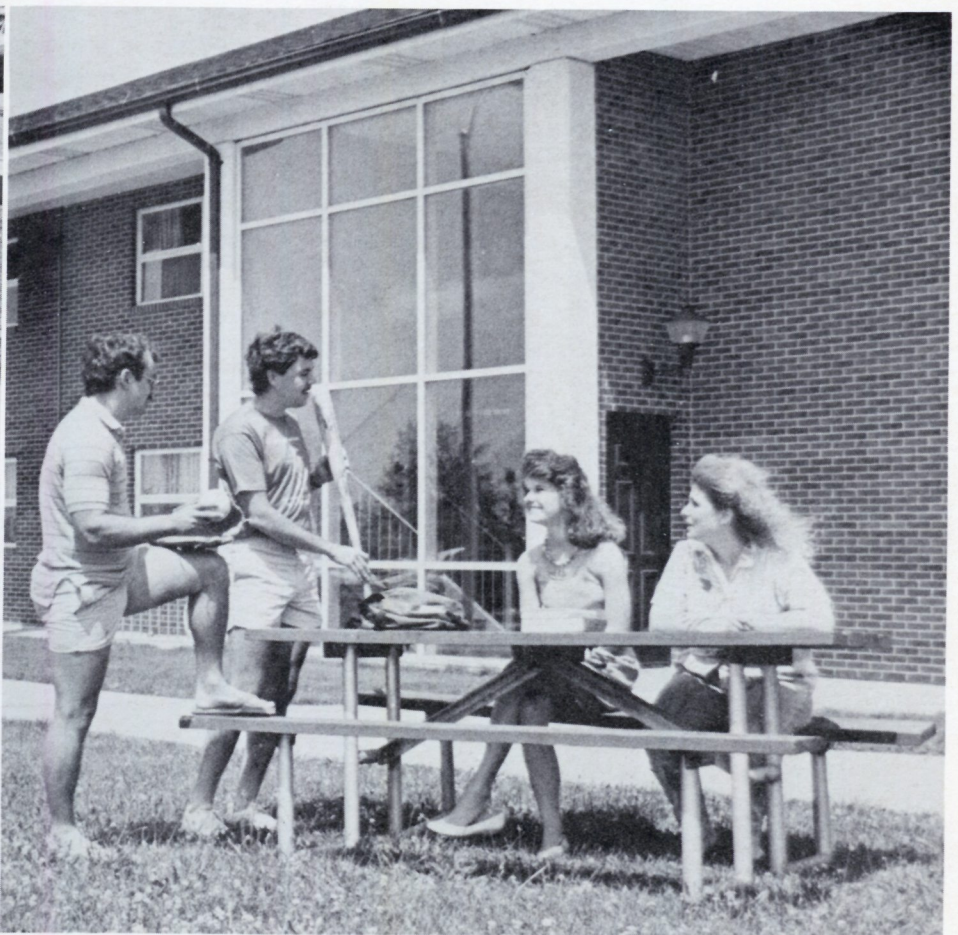
The College provides residence hall accommodations and meals for over 600 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional head residents and 19 para-professional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social, and athletic programs for the students and acts as liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students are also entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application-Contract for Room and Board Accommodations from the Missouri Southern Housing Office. The completed Application-Contract should be returned to



Moving day, and over 500 students will be settling into the dorms and residence halls on campus—finding new friends, encountering new ideas, and gaining maturity in the process.

this office with a \$75 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of, or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri South-

ern, contact the Housing Office, Room 211, Billingsly Student Center.

STUDENT HEALTH SERVICES

The faculty and staff of Missouri Southern are interested in students' physical and emotional well being as in their intellectual and cultural development. The Student Health Center, staffed with a full-time registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. All currently enrolled students are eligible for treatment at the center. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions, and ambulance service.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

INTERCOLLEGIATE ATHLETICS

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the educational proc-

STUDENT SERVICES

ess, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support.

The College is a member of the Central States Intercollegiate Conference and the

National Association of Intercollegiate Athletics. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, and volleyball.

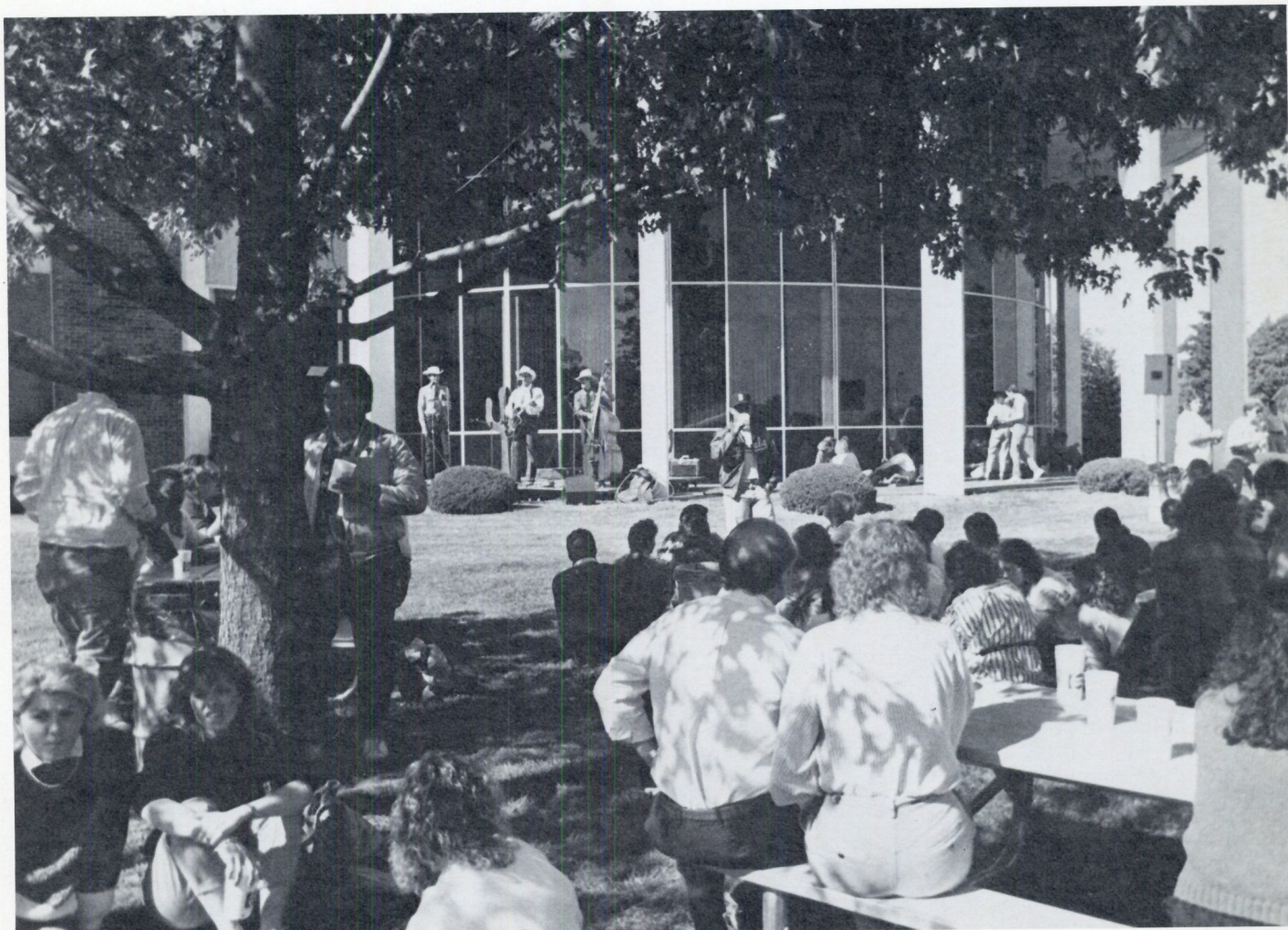
STUDENT CONDUCT

In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Central Office, BSC 211. Additional guidelines to insure the safety and comfort of resident

students are in the Residence Hall Regulations which are available from the Director of Housing.

STUDENT IDENTIFICATION CARDS

The student identification card is produced by the College and issued to all full-time students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. is free; replacement fee for lost cards is \$5.00.

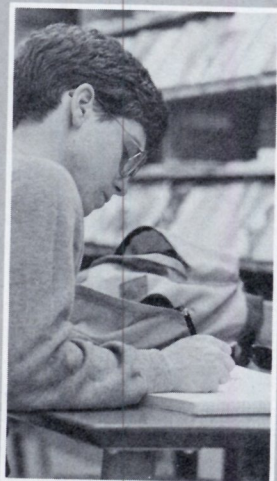
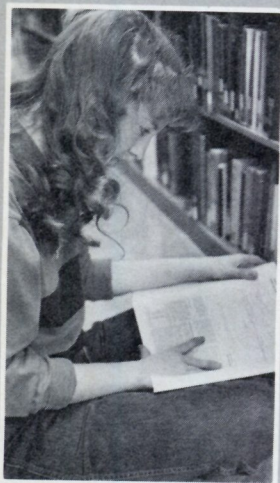


"Spring Fling" and Homecoming offer a chance for big campus picnics. Free food, free music, free sunshine!

ACADEMIC AFFAIRS



College library, 1940



ACADEMIC AFFAIRS

VICE PRESIDENT

Floyd E. Belk

Staff: Ray A. Malzahn, Dean, School of Arts and Sciences; Robert C. Brown, Dean, School of Business; Edward P. Merryman, Dean, School of Education and Psychology; James K. Maupin, Dean, School of Technology; Delores A. Honey, Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles Kemp, Head Librarian; and Eugene C. Mouser, Registrar.

The Office of Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Resources Center, the Honors Program, the Learning Center, the Continuing Education Program, and all academic units are under its direction.

SPIVA LIBRARY

Head Librarian
Charles Kemp

Staff: Mary Lou Dove, Gaye Pate, David Reiman, Theresa Connors, Don Mosley, and Charles Nodler.

The Library consists of two units:

1. The Library
2. The Audio-Visual Center

The Library. The George A. Spiva Library building was completed in 1967 and enlarged to its present size in 1973. It is staffed by six professional librarians, five full-time clerks, and thirty-two student employees. The library has a collection of 165,000 books, subscribes to 1350 periodicals, and receives more than 800 titles of these journals on microform. The complete collection of ERIC is available, as well as access to BRS, DIALOG, and the Dow Jones News/Retrieval services. The library is a partial depository for Federal Documents and catalogs materials and uses the inter-library loan systems of the OCLC database. An archival area features maps of the tri-state mining area and a complete collection of Congressman Gene Taylor's papers.

The Audio-Visual Center. The AVC is located on the third floor of Spiva Library. The center contains video monitors, cameras, tape recorders, overhead projectors, audio equipment, slide projectors, 16mm projectors, and both IBM and Apple microcomputers. The AVC staff assists faculty

and students in the review of films, filmstrips, and other media used for classroom purposes. The AVC is also available to teachers in the area schools.

THE HONORS PROGRAM

Delores Honey, Chairperson,
Honors Committee
Steven Gale, Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students.

Features of the program are as follows:

1. All full-time students admitted to the Honors Program will receive a four-year renewable scholarship that covers tuition, book rental fees, and student activity fees for fall, spring, and summer semesters. Additional scholarship funds to cover room and board will be available to National Merit Scholarship finalists and semifinalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.
2. Honors sections of selected general education courses are available to Honors Students.
3. Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individualized advising, group retreats, colloquia, internships, guest speakers, and placement services.
4. Recognition is given Honors Program members successfully completing the program by having a notation to that effect made on their permanent records.

Who is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern State College. Incoming freshmen with a composite score on the ACT of 27 or above or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay, and an interview are required of applicants.

Students who have already completed at least 15 hours of course work with a grade point average of 3.5 or above at Missouri Southern or any other accredited college

or university are also invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595.

SUMMER STUDY AT OXFORD

To live and study at historic Christ Church is considered by many to be an experience of a lifetime. Missouri Southern offers an elective summer study program with Oxford, the world's foremost university. This program is in cooperation with Florida State University.

Students will participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford College life as it has survived over the past 700 years. In addition, students will be able to meet with tutors and visiting scholars in an informal atmosphere.

A selected group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade average. Qualified students select courses offered in three week sessions on various subjects. MSSC grants partial scholarships to some students each year. Honors Program students are given priority consideration in the selection process. Faculty members are also chosen to take part in the program.

There is time for students to enjoy the rich heritage of England through formal tours or individual excursions. Even though it is brief, a great opportunity awaits those selected to be a member of this distinguished community of scholars and a participant in the Oxford experience.



The Spiva Library is modern in every respect, with computerized catalog, and electronic data systems that put materials from across the nation at your fingertips. But students can still browse leisurely through the stacks and curl up in a quiet corner with a good book.

THE DIVISION OF CONTINUING EDUCATION

R. Jerry Williams, Director

The Division of Continuing Education was initiated in the Fall of 1974. This academic division embraces the life-long learning concept by providing a wide range of credit and non-credit courses which supplement the College curriculum described in the institutional catalog. The Continuing Education curriculum has proven to be especially appealing to the non-traditional students. During the first twelve years approximately 300 different courses have attracted nearly 30,000 students.

In order to meet the on-going and newly emerging educational needs of the people of the College service area, approximately seventy-five different offerings of variable lengths are scheduled to start at various

times during each academic year. These courses are especially tailored to accommodate a wide diversity of educational needs and interests. Both vocational and avocational offerings are available. All students pay moderate fees which are used to defray the cost of the instruction. Continuing education courses offered for semester hour credit may be converted to regular college credit when a General Academic Petition is approved by the School Dean of the student's degree area. A permanent record (transcript) is maintained by the Continuing Education office for each student enrolling for continuing education semester hour credit. Students wanting copies of their records should contact the Continuing Education office.

Additional information may be obtained by contacting the Continuing Education office located in Room 103 of Hearnest Hall.

THE LEARNING CENTER

Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. The Center provides a wide range of services:

1. computer lab for all students;
2. computer assisted programs in reading and writing;
3. audio-visual learning aids;
4. supplemental instruction in designated classes;
5. peer and professional tutoring;
6. counseling.

Required classes in composition and reading designed to meet the needs of under-prepared students are offered through the Center. Additional classes in reading and study skills are available.



Computers now are an integral part of designing machine parts for transfer to the manufacturing process. Learning is always up to date as the technology department receives the newest manufacturing software packages.

Academic Regulations

Missouri Southern faculty want their students to succeed, so students need to prepare themselves academically for college classes. The following high school studies are recommended for college bound students. Experience has shown that students who have completed these courses are most likely to succeed in college:

1. Language Arts: 4 years of English which must include 2 years of composition plus 1 year selected from speech, journalism, literature, or foreign language.
Total — 4 Units*
2. Mathematics: 1 year of algebra and 2 years selected from advanced algebra, geometry, trigonometry, calculus, or computer science.
Total — 3 Units*
3. Sciences: such as biology, physics, chemistry, earth sciences, and life sciences. (General Science does not count.)
Total — 3 Units*
4. Social Sciences: such as American government, American history, world history, psychology, sociology, economics or anthropology.
Total — 2 Units*
5. Three additional units selected from: foreign language, mathematics, physical or biological science, or social science.
Total — 3 Units*

ADMISSIONS

New admission requirements have been approved by the Board of Regents for Missouri Southern. These requirements will become effective for students entering the College in the Fall of 1987. The new policy outlines the minimum requirements for admission; however, prospective students should be aware that individual programs may require additional credentials. It should also be noted that the new requirements do not pertain to the existing policy for transfer, foreign applicants, readmissions, and non-degree students.

Students wishing to be admitted to Missouri Southern can be placed into one of three classifications:

1. First Time College Students

2. Students With Previous College Experience
3. Special Program Admissions

FIRST TIME COLLEGE STUDENTS

Students who are entering college for the first time must possess certain educational requirements before they are allowed to matriculate. First time college students are granted admission in the following manner:

Unconditional Admission

Students who have a composite score of 24 or above on the ACT admissions test and rank in the upper 50th percentile of their graduating class will be admitted unconditionally.

Regular Admission

Students who have a composite score of 24 or above and rank in the lower one-half of their high school graduating class, or students who score between 15 and 23 on the ACT test shall be granted regular admission. (Regular admission students may be required to take remedial classes if their English, mathematics, or reading scores are low.)

Regular (Conditional) Admission

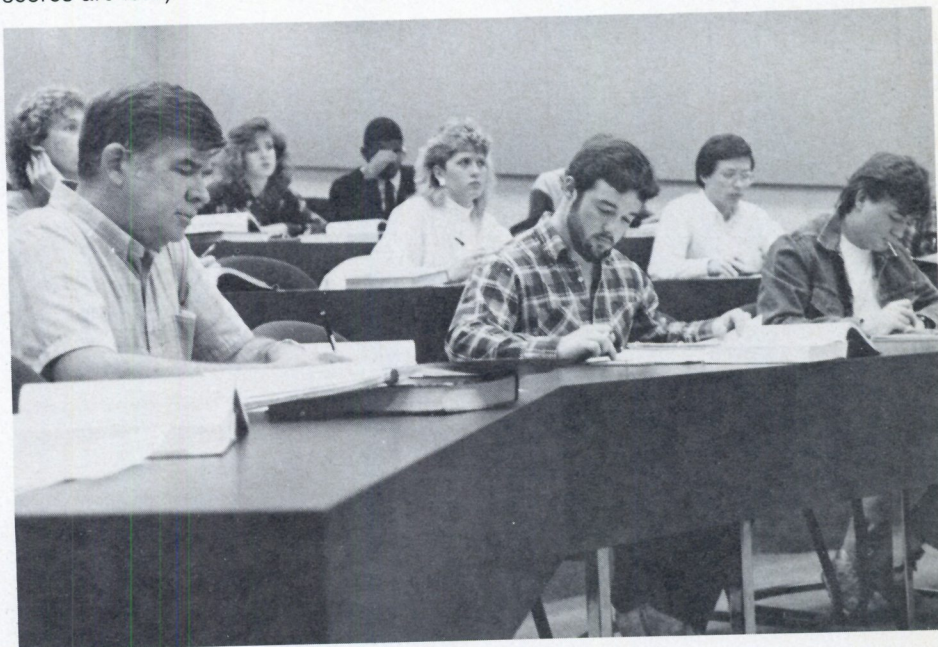
Students who have a composite score between 10 and 14, inclusive, and students who score below 10 and are in the upper 50th percentile of their high school graduating class, shall be admitted conditionally. Traditionally, students in this category are required to take remedial English, mathematics and/or reading. Students in this category must reduce all deficiencies within the first academic year.

Admission Denied

Students who have a composite score of 9 or below on the ACT admission test and are ranked in the lower one half of their high school graduating class are denied admission. Such denial may be appealed to the Admissions Committee.

STUDENTS WITH PREVIOUS COLLEGE EXPERIENCE

Former MSSC Students. Former Missouri Southern State College, Junior College of Jasper County, and Joplin Junior College students must inform the Office of Admissions of their intention to return. When necessary, these students will be required to update their credentials.



Tiered classrooms are a feature in the new wing of Matthews Hall, where business students make up the largest group of majors in the College. Business and industry throughout the area employ Southern's carefully trained graduates.

Transfer Students. Students transferring from another collegiate institution must present credentials listed on page 37, plus: (a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, (c) pay a \$10 non-refundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Students seeking admission from other colleges with 55 transfer credit hours or more must present a minimum "C" (2.0 on a 4-point scale) average.

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

Transient Students. Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$10 non-refundable application fee, and a statement of good standing from the Vice President for Academic Affairs or Registrar of the student's home college or university.

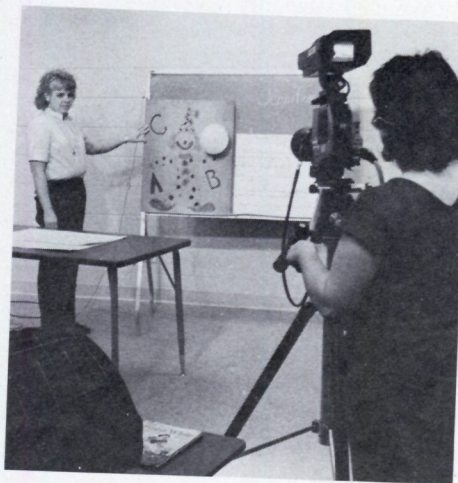
SPECIAL PROGRAM ADMISSIONS

International Students. International students not citizens of the United States who wish to apply for admission should write the Director of Admissions for the proper application forms and instructions. In addition to the admission credentials required of all students, (p. 37) international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study, and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score 500 on the Test of English as a Foreign Language. Deadlines for completed application for admission:

Fall Semester — July 1
Spring Semester — November 1
Summer Semester — April 1

Students who are citizens of the United States who use English as a second language must pass English language compe-

tency. A TOFEL test score of 500 is required of these students.



Continuing Education.

Off Campus Extension. Frequently regular college curriculum classes are offered off campus. Students who enroll in these classes will generally be enrolled as "temporary" students.

Off Campus-Credit. The College is committed to offering educational experiences necessary for community betterment. When possible these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

Off or On Campus — Non-credit. Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of the instructor.

Credit-in-Escrow. The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of the high school principal. Credit held in escrow will not be transferred to another college or university. When the student enrolls as a regular college student and completes twelve (12) semester credit hours at Missouri Southern, the credit-in-escrow will be placed on the permanent academic record and may apply toward graduation requirements.

Special A person who has not graduated from high school but who has ACT Test

scores on file at the College may be admitted on a probational basis. A student admitted under this regulation must make a "C" average over the first semester's work to be eligible to return for the second semester. Upon successful completion of 30 semester hours a student's status will change from "special" to "regular".

CREDENTIALS REQUIRED FOR ADMISSION

Students with no college experience are required to furnish credentials as follows for admission to the freshman class:

(1) **High School Transcript.** An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 7th or 8th semester rank in class must appear on the record.

(2) **Application.** The application for admission must be completed one week before the first day of registration (see college calendar). This includes all credentials required by the Admissions Office.

(3) **Application fee.** A fee of \$10 must be included with the application for admission. (This fee is non-refundable and not applicable to other college fees.)

(4) **Admission for Non-Residents of Missouri.** A non-resident of Missouri is required to submit the same credentials as a resident.

(5) **Veterans.** Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of registration.

(6) **Miscellaneous Requirements.** Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body.

While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri Southern within one year after making application, must submit new credentials when seeking admission again.

ACADEMIC REGULATIONS

The Health Sciences (Nursing, Dental Hygiene, and Radiologic Technology.)

Admission to Missouri Southern does not automatically confer admission to the nursing program, dental hygiene, radiologic technology, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the Department of Nursing Office, Kuhn Hall, the Dental Hygiene Department Office, or the Radiology Department of St. John's Medical Center. Applications should be submitted prior to March 1, preceding the Fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See Nursing Department page 150, Dental Hygiene Department page 142, or Radiologic Technology page 152 under affiliated programs for full information or admission and acceptance criteria.

Honors Program. This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by *invitation*. Interested students should ask the Director of Admissions for a special admission form.

Temporary. In some instances, students may wish to enroll for a limited amount of credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status, and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

Return to Learn. Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group, and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

60 Plus. This program is designed to serve interested individuals over the age of 59. Community residents may register for any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

PLACEMENT, EXAMINATIONS, CREDITS

Placement Tests.

Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented within three years from the time the test was taken, as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.

Resident Credits from Institutions of Equal Standing with Missouri Southern State College.

Credits transferred from accredited colleges will be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same

length of time of instruction. Students may not transfer credits to satisfy more than one-half the major course requirements for a department unless he has the approval of the Vice President for Academic Affairs.

Transfer Of Resident Credits From A Junior College.

Credits will be accepted by transfer from a junior college to meet lower division requirements only. This means that students will not receive credit by transfer from a junior college for more than 64 hours. A minimum of 60 semester hours must be earned in a senior college. Students who have completed a college transfer course culminating in an Associate of Arts Degree from an accredited Missouri junior college are assumed to have fulfilled freshman and sophomore general education requirements. Students will be directed immediately into their major areas according to their preparation. Transfer students who have not completed the Associate of Arts Degree as stated above will have their courses evaluated individually.

In most cases, not more than 64 semester hours of credit may be offered as advanced standing from a junior college. If work is combined from a junior college and a four-year college, the amount of credit accepted at the time of completing the junior college work usually may not exceed 64 semester hours. After a student has attained 64 semester hours, credit should not be taken at a junior college. Transfer students must take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.



The Lady Lions compete in three varsity sports and the Lions in five. Both consistently vie for conference championships as well as national recognition.

Advanced Standing Examination.

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular class, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In addition to having the above qualifications, a student in order to receive credit for an advanced examination must:

- (a) be enrolled in college at the time of the examination;
- (b) not have taken an examination over the course within the preceding six months;
- (c) not have credit in a more advanced course in the same field;
- (d) be working toward a degree at Missouri Southern State College;
- (e) have the approval of the head of the department in which the course is offered.

After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade, the Registrar will record the credit.

Students may initiate an examination in the CLEP Program by contacting the Director of Counseling and Testing. A student may initiate a departmental test with the head of the department.

After the student has taken the CLEP Examination, the test will be graded in Princeton, New Jersey. Scores will be sent to both the Vice President for Academic Affairs and the student. If performance is equated as a "C" grade, the Registrar will record the credit.

Missouri Southern participates in the CLEP General Examination Program. Entering freshmen who have delayed college entrance by as many as three years since high school graduation may take the CLEP General Examination.

Three to six hours may be awarded in each of the five test areas. Credit will be granted only if the score is 500 or above on the

mathematics, humanities, natural sciences, and social sciences and history. A score of 610 will be required on the English examination.

Validation Examinations.

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken, or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must:

- (a) be enrolled in college at the time the examination is taken;
- (b) present the necessary evidence to prove that the course was taken;
- (c) get approval from the Registrar, the School Dean and the Head of the Department in which the course is offered to take the examination;
- (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates his request for examination at the Registrar's Office. The School Dean and the Department Head will appoint a professor to construct, administer, and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.



Over 80 percent of the students enrolled in science and pre-professional programs who apply to graduate or professional school are accepted. That kind of success comes from a strong curriculum and faculty who give close individual attention.

Advanced Placement.

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with scores of 3, 4, or 5. No more than six hours of credit will be accepted with this program.



Students conduct field studies as part of a biology internship at George Washington Carver National Monument. Internships are available in many majors.

The Honors Program.

Entering students will be governed by policies enunciated on page 34 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

Catalog Time Limit.

A candidate for a degree may use as a basis for degree requirements the general catalog issued for any year following the date of his first registration in the college, so long as it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence during the year of the catalog selected. The degree requirements in this catalog, 1987-89, became effective June 1, 1987.

ACADEMIC REGULATIONS

BACCALAUREATE DEGREES

- A. **Residence**—The student must have earned 30 out of the final 36 semester hours in residence at Missouri Southern State College. (This regulation does not apply to three-one affiliation programs.)
- B. **Credit Hours**—At least 124 semester hours of college credit applicable to a baccalaureate degree are required to qualify for graduation.
- C. **Grade Point Average**—The following grade point averages are required for graduation:
1. a 2.0 cumulative grade point average for all credit hours attempted;
 2. a 2.0 grade point average within the major;
 3. a 2.0 grade point average for all courses taken in the major department;
 4. The Teacher Education Program requires a grade point average of 2.5 and an ACT composite score of 18+ or an SAT (v+m) of 800 for both.
- D. **Upper-Division Hours**—A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs.
- E. **Foreign Language**—All students expecting to graduate with a Bachelor of Arts degree must successfully complete 6-10 hours of the same foreign language as a part of his or her graduation requirements.
- F. **Special Education**—All students expecting to graduate with a Bachelor of Science Education degree must successfully complete 2 hours of Special Education (Educ 302) as a part of graduation requirements.
- G. **Time of Graduation**—A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are ex-

pected to participate in the commencement activities.

- H. **Computer Literacy**—All students will receive computer instruction to a level of understanding necessary for them to function as members of society and to a level of skill sufficient to use the computer for problem-solving within their discipline. Department heads will certify the competency of the students in their disciplines.
- I. **Major Field**—A minimum of 15 semester hours or one half of the total hours (whichever is greater) is required for the major.
- J. **Placement Services**—Each degree candidate must register in the Placement Office.
- K. **Degree Candidacy Application**—Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application form is available in the office of the Registrar.
- L. **Educational Methods Course**—These courses, including student teaching, are applicable only to the Bachelor of Science in Education degree.
- M. **Nursing Courses**—Task oriented nursing courses are applicable only to the nursing major.
- N. **Correspondence, Extension, and TV Course Credit**—A maximum of twelve

semester hours of correspondence, extension, and TV course credit may be considered for a degree.

- O. **General Education Requirements**—Missouri Southern has a program of General Education that contributes toward the development of the whole person, as an individual and as a member of society. To accomplish this goal the student pursues a carefully planned and correlated program of courses. The courses selected to fulfill the General Education requirements:

- (1) improve skills of communication and mathematical proficiency;
- (2) give an understanding of leading intellectual ideas of Western civilization;
- (3) create an appreciation of our cultural and political heritage;
- (4) emphasize responsibility as a citizen;
- (5) aid in the development of creative and independent thought and expression;
- (6) provide knowledge and understanding of the physical universe;
- (7) develop awareness of the importance of health and physical fitness; and
- (8) afford experiences conducive to the development of strong character and personality.



Nursing graduates are in demand and fill many administrative positions in major hospitals in the area. Thorough and up-to-date training is available in two and four year programs.

BACCALAUREATE DEGREE REQUIREMENTS

Area 1. Basic Requirements

A. *English Composition* (Eng. 101 and 102 or 103) 6 (or achievement of the required competency level which can be done in 3 hours (Eng. 111).

B. *Communication* (Select one)
100 Oral Communications (3)
131 Voice and Articulation (3)
103 Business & Professional Speech (3)

C. *Mathematics* (110 or above) 3

D. *Physical Education*:
HPER 101 Intro to P.E. (2)
HPER 160 Personal Health (2)
Total For Area 1. 16 Hours



Area 2. Humanities And Fine Arts

Literature (at any level for which the student is qualified, except Eng. 325) 3

Select two courses (not in same area of study.) 6

Art - any - see p. 50 (3)
Theatre - any - see p. 50 (3)
*Foreign Language (6-10)
Literature (3)
Music - any - see p. 60 (3)
Philosophy (3)

Total For Area 2. 9 Hours

*May be counted as one course only if the student had more than one course in the same foreign language.

Credit Hours Required 6

Ten hours of one foreign language is required of all students graduating with the Bachelor of Arts Degree. See above.

The Bachelor of Arts degree students, who must take foreign language as a degree requirement, may apply three hours of foreign language taken beyond the degree requirement toward the humanities and fine arts General Education requirements.

Area 3. Natural Science

Biology 161, 116 or 121 - p. 53 4
Physical Science - no lab 5
Total For Area 3. 9 Hours

Area 4. Behavioral and Social Sciences

History 110 or 120 (U.S. History) 3
PSc 120 Gov't: Nat'l, State, Local 3
Econ 180 (or any other Economics Course for which the student might qualify. Students planning to major or minor in Business should take Econ 201). 3

Select One: 3
Psychology (3)
Sociology (3)
Economics (3)
History (3)
Political Science (3)
Geography (3)

Total For Area 4. 12 Hours

Total General Education Requirements 46 Hours

lar preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours adding up to 62, as approved by the advisor and the Vice President for Academic Affairs.

E. General Education Requirements—
The degree requires completion of the general education requirements which are:

Area 1. Basic Skills

English 101-102 or 103, English Comp 6
Select One: 3
Comm 100, Oral Communications (3)
Comm 131, Voice & Articulation (3)
Mathematics (110 or above) 3
Physical Education 3
Select One: 2
HPER 101, Intro to PE (2)
HPER 160, Personal Health (2)

Total For Area 1. 14 Hours

Area 2. Behavioral & Social

History 110 or 120, History of United States 3
Select two: 6
History (3)
Geography (3)
Psychology (3)
Sociology (3)
Economics (3)

Total For Area 2. 9 Hours

Area 3. Humanities and Fine Arts

Any 3 hours of literature courses for which the student is qualified except Eng. 325. 3

Select One: 3
Music 110, Music Appreciation (3)
Art 110, Introduction to Art (3)
Theatre 110, Theatre Appreciation (3)
Philosophy 201, Introduction to Philosophy (3)

Total For Area 3. 6 Hours

ASSOCIATE DEGREES

Associate of Arts Degree

A. Credit Hours—A minimum of 62 semester hours must be completed.

B. Residence—The last 15 semester hours must be completed in residence at Missouri Southern.

C. Grade Point Average—Minimum cumulative and major field grade point average must be 2.0.

D. Major Field—The student must meet the course requirements of the particu-

Credit Hours Required

ACADEMIC REGULATIONS

Area 4. Natural Sciences	Credit Hours Required
<i>Any biological or physical science</i>	4
Total For Area 4.	4 Hours
Total General Education Credit Required	33

Associate of Science Degree

- A. Credit Hours**—A minimum of 62 hours must be completed.
- B. Residence**—The last 15 semester hours must be completed in residence at Missouri Southern.
- C. Grade Point Average**—The minimum cumulative and major field grade point average must be 2.0.
- D. Major Field**—The student must meet the course requirements in the particular program of study as approved by an advisor.
- E. General Education Requirements**—The degree requires completion of the general education courses as well as those outlined in the student's major field of study. The general education required courses are:

Area 1. Basic Requirements	Credit Hours Required
<i>English 101, English Composition</i>	3
<i>Mathematics (30 or above)</i>	3
<i>Speech</i>	3
<i>Physical Education</i>	
<i>Select One:</i>	2
HPER 101, Intro to PE	(2)
HPER 160, Personal Health	(2)
Total For Area 1.	11 Hours

Area 2. Social Science	Credit Hours Required
<i>Select One:</i>	3
History 110 or 120, History of the U.S.	(3)
Political Science 120, Government: National, State, Local	(3)
<i>Select One:</i>	3
Sociology	(3)
Psychology	(3)
Total For Area 2.	6 Hours

Area 3. Humanities and Fine Arts	Credit Hours Required
<i>Select One:</i>	3
Theatre 110, Theatre Appreciation	(3)
Philosophy 201, Introduction to Philosophy	(3)
Music 110, Music Appreciation	(3)
Art 110, Introduction to Art	(3)
Literature, except Eng. 325	(3)
Total For Area 3.	3 Hours

Area 4. Natural Sciences	Credit Hours Required
<i>Select One:</i>	4
Biology 100, General Biology	(4)
Physics	(5)
Chemistry	(5)
Geology	(5)
Total For Area 4.	4 Hours
Total General Education Credits Required	24

SPECIAL REQUIREMENTS

Physical Education Requirements.

All students are required to satisfactorily complete 4 hours of physical education before they are permitted to graduate. Currently students must complete HPER 160, Personal Health, and HPER 101. HPER 101 is a two-credit-hour course consisting of two hours of laboratory per week and one hour of lecture per week. Credit can be given only if both laboratory and lecture are completed.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) Students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) Students transferring 15 to 29 semester hours will be exempt from 2 hours of physical educa-



Annually over 12,000 children and adults enjoy the live theatre productions which offer students from all majors creative outlets in performance and production work.

tion; (3) Students transferring 30 hours or more will be exempt from the 4 hours of physical education.

B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

State Legislation Requirement. Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including, the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the General Education Requirements meet the requirements of Missouri law. Out of state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Constitution.

School Laws of Missouri 1974, requires that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking the course, Psy. 302.

Commencement Requirements.

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the Registrar's office. No student will be permitted to participate in the com-

mencement exercise whose name does not appear on the commencement program. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

GENERAL REGULATIONS

Classification of Students.

A. By Class:

Freshman: 0-29 Hours
Sophomore: 30-59 Hours
Junior: 60-89 Hours
Senior: 90 and above
Special Admission: See catalog p. 37.

B. Post Graduate:

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation, and additional degree or personal profit.

C. Full-time:

A student enrolled for 12 or more semester hours.

D. Part-time:

A student enrolled in 11 or less semester hours.

Dual Credit

A student who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination, or USAFI examinations while enrolled in residence at Missouri Southern must secure advanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces personnel will be granted sixty days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. (Exception: Students may not count the professional education courses of the first degree as electives toward the second degree.) The "Residency" does apply.

Transcript Below "C" Average.

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's."

Maximum Credit Hour Load.

To enroll in more than 18 semester hours during a semester or in more than 9 hours during a summer session, a student other than a music major must obtain prior written permission from the dean of his school. Music majors may carry as many as 20 semester hours without permission from their dean.



Late Registration.

No student will be permitted to enroll in a regular semester after the second week of classes and in a summer session after one week of classes. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College.

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (Hearnes Hall 114). A student who withdraws prior to the end of the ninth week of a regular semester and the end of the 25th day of a summer session will receive a "W" on the permanent record. If the student withdraws after these deadlines, courses will be listed on the permanent record with a grade of "F". A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

ACADEMIC REGULATIONS

Dropping Courses.

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in the college catalog apply.

Adding Courses.

A student may add a course in the Registrar's Office, but only upon the approval of an advisor. A fee of \$5.00 will be charged each time a student changes the program not at the request of the college. No course may be added after the second week of classes in a regular semester and after the first week of classes in the summer session.

Class Attendance.

The primary objective of student and professor is the student's attainment of course goals. It is recognized that normally those students who achieve well are regular in class attendance. The professor, when giving a final semester grade, bases the evaluation on how well the student has achieved the course goals.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities, and extenuating circumstances. The professor may require whatever evidence needed to support the reason for absence. Students who are absent two class meetings more than the credit hours of the course may be dropped from the course. However, if a grade of "C" or better is

maintained, students cannot be dropped without their permission.

Because the attendance record is significant to the total record and useful in guidance and counseling, the professor keeps a record of individual class attendance. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

Grades and Grading Policies.

Grading System

A student's grade is officially recorded by letter. At Missouri Southern the following grades and their numerical equivalents are used:

Grade	Grade Points
A Outstanding	4
B Above Average	3
C Average	2
D Minimum Passing	1
F Failing	0
W Withdrawal—The current policy for the "W" grade is as follows:	

(a) Course withdrawals will be permitted through the first week of the semester without any grade recorded.

(b) Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.

(c) Course withdrawals are not permitted after the ninth week of the regular semester (or its equivalent). Exceptions to this policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an F in the course.

I Incomplete A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in

the family, an emergency, etc. It is not intended as a substitute for an "F" and does not entitle a student to attend the class during a subsequent semester. An incomplete must be made up by the end of the next semester (excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F".

AU Audit A student may audit a class for no grade and no credit. Acceptable performance, attitude, and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An Audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the immediate supervisor, School Dean, and Vice President for Academic Affairs.

Independent Study

Independent Study courses are special courses which may be taken by outstanding students at the discretion of the faculty advisor and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed
Associate Degree—30 hours;
Baccalaureate Degree—90 hours
2. have a minimum cumulative 3.00 GPA;
3. have permission of the advisor, Department Head, and the Dean of the School in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.



Military Science offers students the opportunity for scholarships while they pursue their chosen major. ROTC challenges participants in land navigation, rifle marksmanship, basic survival skills, and leadership.

Posting of Grades.

College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without his approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcript.

An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.

Academic Standards

Good Standing and Eligibility.

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See College Catalog (p. 20.)

Those students competing in intercollegiate athletics or in organizations representing the College off campus are ineligible to participate in these programs when they fall below the norms set for minimum standards of progress.

Academic Bankruptcy.

A student may petition the Academic Policies Committee that one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently en-

rolled, in good standing, and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Remedial Courses.

Occasionally scores obtained from the placement tests indicate a student may not be successful in college. The College reserves the right to require these students to take pre-college courses in mathematics, language arts, and reading prior to participation in regular college classes.

Standards of Progress Toward Graduation.*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree Candidates

<i>Hours Attempted</i>	<i>Grade Point Average</i>
1 - 22 semester hours	1.6
23 - 33 semester hours	1.7
34 - 44 semester hours	1.8
45 - 55 semester hours	1.9
56 & Above	2.0

B. For Baccalaureate Degree Candidates

<i>Hours Attempted</i>	<i>Grade Point Average</i>
1 - 22 semester hours	1.5
23 - 44 semester hours	1.6
45 - 66 semester hours	1.7
67 - 68 semester hours	1.8
89 - 110 semester hours	1.9
111 & Above	2.0

*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

Academic Probation, Suspension, and Reinstatement.

Each student should consider a grade point average of less than 2.0 as a warning.

Those falling below the standards of progress toward graduation will be placed on



Students create approximately 15 hours a week of programming for broadcast on cable TV to three cities. Student announcers also man KXMS, Southern's classical music radio station.

ACADEMIC REGULATIONS

academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College. A student receiving academic suspension must stay out of Missouri Southern one semester.

Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses.

A course in which a student has made a grade of D or F may be repeated. The grade and grade points in the repeated class will be cancelled and the second grade will be used in computing grade point averages.

C is one sometimes repeated - is usually accepted

298-498 Classes.

Classes numbered 298 or 498 may not be counted toward General Education credit.

Honor Roll.

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C".

Graduation Honors.

In recognition of superior scholarship, the College awards honors to associate degree and baccalaureate degree graduates as follows:

Associate Degree. The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors	3.90-
Second Honors	3.80-3.89
Third Honors	3.70-3.79

Baccalaureate Degree. Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern State College and earn a minimum of 60 hours of credit:

Summa Cum Laude	3.90-
Magna Cum Laude	3.80-3.89
Cum Laude	3.70-3.79



Course Numbers and Levels.

Course Numbers:

- 0 - 99 Applicable toward the associate degree only
- 100 - 199 Primarily for freshmen
- 200 - 299 Primarily for sophomores
- 300 - 399 Primarily for juniors
- 400 - 499 Primarily for seniors

Normally courses numbered 100-299 are considered junior or lower division level courses, and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the two hundred level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is to be offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as

a contract. Missouri Southern State College reserves the right to deviate from this commitment when enrollment or other factors dictate.

Major or Area of Interest.

All students will be required to declare their degree, their major (or area of interest), their status (regular or other), and whether they will attend part-time or full-time.

Revised Standards for Veterans' Educational Benefits.

The Revised Standards for Veterans' Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veterans' Affairs Office. Each Veteran should see the Veteran Counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

Special Policies for Financial Aid Recipients.

Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office, and the Office of the Vice President for Student Services.

ASSESSMENT OF OUTCOMES

PROGRAM ASSESSMENT

As the mission of the College requires, the faculty of Missouri Southern State College studies carefully all data related to the performance of its students, graduates and programs in order to insure quality and integrity. By making such information public, the College attempts to reaffirm its commitment to accountability. Listed below are the results of several measures and programs that attest to the good results obtained by the College, its programs, its faculty and its graduates.

GENERAL EDUCATION: The heart of a baccalaureate degree is the General Education component. As our mission states the College's General Education program is heavily grounded in the liberal arts and the sciences. As part of a program of assessment of outcomes developed by the faculty, Missouri Southern students take the ACT-COMP exam (College Outcomes Measures Program, developed by American College Testing). The ACT-COMP is designed to measure the impact of a liberal education on the students as they go through the program of studies and has been constructed to assess skills such as communicating, problem solving and clarifying values as well as the ability to use science, the arts and functioning in social institutions. Moreover, test items require students to apply higher-order intellectual skills, such as analysis, synthesis, and evaluation, not just recognition and recall.

MISSOURI SOUTHERN STATE COLLEGE ACT-COMP EXAM Total Score, Fall 1986

Class Sample	Total Score Means	Percentile Freshman Norms (24,197)	Percentile Senior Norms (26,565)	Number Students Tested
Freshmen	173	53	25	178
Sophomore	176	59	28	14
Junior	185	75	49	66
Senior	188	81	56	28

The data in the above table shows clearly that there is a very positive impact on MSSC students as a result of exposure to the College's general education curriculum. The average total score gain from freshman to senior (173 to 188) is rather significant since research by ACT has shown that gains in score are not a function of maturity or age but rather a function of exposure to a program of general education. When compared to the 24,197 freshmen from 92 colleges throughout the nation (colleges like Ohio University, U.C.L.A., Northeast Missouri State University, Western Michigan University, Trenton State College, William Jewell, Cleveland State Community College, etc.) MSSC freshmen scored on the average better than 53 percent of the nationwide freshman sample. When compared to the 26,565 seniors who took the exam nationally, MSSC freshmen scored better than 25 percent of the seniors, while the MSSC seniors scored better than 56 percent of the national sample of seniors.

Similar gains and comparative results occur in the subtest items measuring outcomes in the areas of Using Science, Using the Arts, Functioning in Social Institutions, Communicating, Solving Problems and Clarifying Values. Class to class comparison shows that while freshmen scored better than 53 percent of the freshmen nationwide, the seniors scored better than 56 percent of their cohorts nationally, an indication of how much better off the MSSC students are, in terms of general education gains relative to the rest of the national sample.

These initial results are very encouraging to the Missouri Southern faculty for they confirm the strength of our approach to general education. These and future data will provide the basis for continued improvement and refinement of our programs.

TEACHER EDUCATION: Graduates of Missouri Southern's teacher education program have been required to take the National Teachers Examination since 1969. MSSC graduates have consistently performed above the national averages. The test measures the relevant areas of Communication Skills, Knowledge of Subject Matter, Professional Knowledge, and there is also an Essay portion within the Communication Skills section that evaluates the students' writing ability.

The table below shows the scores for MSSC and the nation for the years 1985 and 1986.

NATIONAL TEACHERS EXAMINATION

Skills and Knowledge Tested	Spring 1985		Spring 1986	
	Score Means	Percentile	Score Means	Percentile
Communication Skills				
MSSC	662	53	660	47
National	659	48	658	41
General Knowledge				
MSSC	658	53	660	56
National	655	46	659	56
Professional Knowledge				
MSSC	661	58	662	63
National	656	44	659	53
Essay Examination				
MSSC	8.27	N.A.	8.56	N.A.
National	7.29	N.A.	8.13	N.A.

The table shows that Missouri Southern graduates performed significantly better than the national average in all categories of the test in both years, just as they have done in the past. For example, in the category of Professional Knowledge, 1986 Exam, MSSC graduates scored better than 63 percent of the 44,518 graduates in the nation who took the exam.

ASSESSMENT OF OUTCOMES

Missouri Southern continues to attract and graduate well qualified students. In the statewide review of teacher education programs conducted by the Missouri Coordinating Board of Higher Education it was reported that of all the state colleges and universities, the ACT entrance examination average score of Missouri Southern secondary education majors, 20.6, was second only to the University of Missouri, Columbia at 22.0. The majority of the state colleges and universities also were in the 19-20 range. In general, this shows that our colleges are drawing teacher education majors from the top 40 percent of high school graduates.

NURSING: The graduates of the Nursing program at MSSC have consistently excelled in the State Board Examination required to become a registered nurse. For example, the 1985 graduating class consisted of 28 students, **all** of whom passed the RN exam the first time. This rate of 100 percent compares with 93 percent passing rate for the State of Missouri and 90 percent nationally. Furthermore, the average score of the MSSC graduates was 2205, substantially higher than the 2033 average of Missouri candidates and the 2015 national average.

ACCOUNTING: Missouri Southern has always had a very strong accounting program. The College's graduates perform quite well in the CPA examination. The latest data available from the National Association of State Boards of Accountancy show that for the spring 1985 CPA exam, 33 percent of Missouri Southern graduates who sat for the exam passed it. Nationally, of 58,140 candidates who took the exam, 24 percent passed.

More than 100 MSSC graduates have become Certified Public Accountants including Jim Vonier, Gold Medalist for the highest

score in Missouri and among the top 50 in the nation, and Jim Brown, Silver Medalist, second highest score in Missouri. Hundreds of other accounting graduates are working for industry, business, and government.

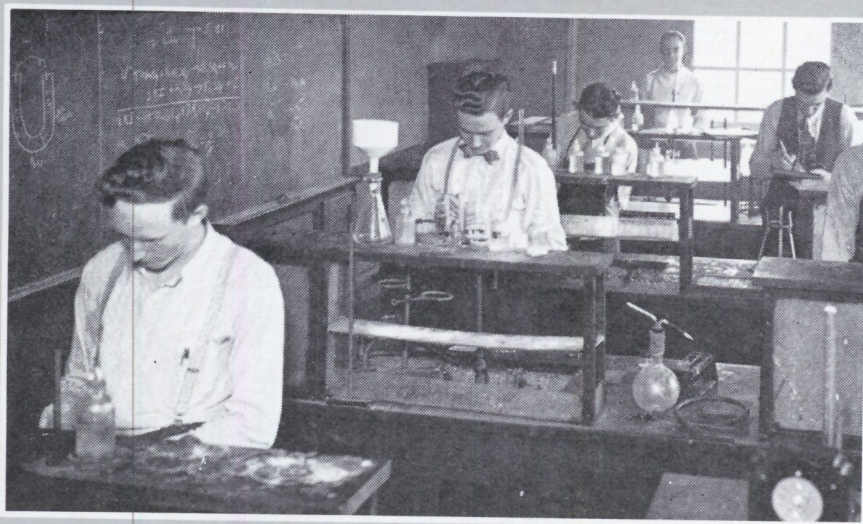
DENTAL HYGIENE: Missouri Southern offers one of only three programs in dental hygiene in Missouri. As with the nursing program, the College's dental hygiene graduates traditionally score higher than the national average in the National Board Dental Hygiene Examination.

NATIONAL BOARD DENTAL HYGIENE EXAMINATION

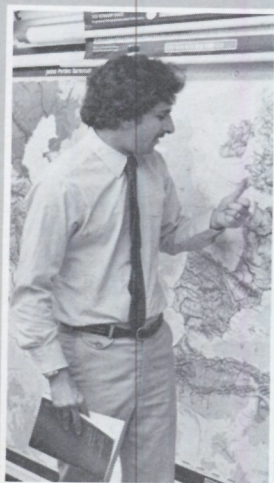
Year	MSSC Mean Total Score	National Mean Total Score	Percent MSSC Passing
1984	229	227	100
1985	245	230	100
1986	232	228	100

MSSC dental hygiene graduates scored higher than the national average in virtually all the sub-categories of the examination as well. Those sub-categories are: anatomic sciences, pharmacology, periodontal disease, radiology, dental materials, biochemistry-nutrition, community dental health education, pathology, microbiology, instrument use, physiology, and plaque and caries.

THE SCHOOL OF ARTS & SCIENCES



Biology laboratory, 1938



SCHOOL OF ARTS AND SCIENCES

SCHOOL DEAN:

Ray A. Malzahn

DEGREES AND MAJORS

Bachelor of Arts

Art
Communications
Chemistry
English
History
Music
Political Science
Sociology
Spanish
Theatre

Bachelor of Science

Biology
Chemistry
Mathematics
Physics
Sociology

Bachelor of Science in Education

Art
Biology
Chemistry
English
Mathematics
Music
Physics
Social Science
Spanish
Speech-Theatre

Options and Emphases

Art (B.A.)
Studio Art
Graphic Communications
Communications (B.A.)
Speech Communications
Mass Communications
Music (B.S.E.)
Instrumental
Vocal
Double Certification
Social Sciences (B.S.E.)
History
Political Science
Sociology

Minors:

See Departments

ROLE:

Consisting of seven departments and thirteen major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts or general education component. The other is to educate students for professional careers and for graduate school. The liberal arts component is designed to meet the needs of the individual and of society, needs which include value clarification, analytical thinking, effective communication, knowledge of history, understanding of our universe and environment, ability to participate in government, and appreciation of the fine arts.

SCOPE:

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities, and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, and musical concerts and recitals.

ART

FACULTY:

Fowler, Head; Christensen, Cole, Hess, Wong-Ligda

Career opportunities available for the qualified Bachelor of Arts degree graduates are in commercial art, free-lance, and private studio lessons. This degree also prepares the graduate for an advanced degree on the masters level in a specific art discipline. The Bachelor of Science in Education (Art) degree graduates are certified through the teacher education program for K-12, 7-9 or senior high school levels in the State of Missouri.

Degree requirements in the four Art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in Art meet with their faculty advisors each semester. Students are responsible for contacting their advisor after completing twenty-one (21) semester hours in Art to make application for their Junior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress, and a statement of intent and/or objectives for examination by a committee of the Art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490, Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the Department of Art office, room 303, Art Building.

General Education requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by any Art course.

**BACHELOR OF ARTS WITH
A MAJOR IN ART****Emphasis I****Studio Art**

Semester Hours

**General Education Requirements
(see page 41)**

46

**Computer Literacy Requirement—
—determined by the Art
Department**

2-3

**Foreign Language (two courses
in one language)**

10

Art Requirements

53

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture	3
Art 205 Beginning Jewelry*	3
OR	

Art 230 Basic Form*	3
Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 312 Beginning Printmaking*	3
Art 490 Senior Exhibit	2
Art Electives (300-400 level courses)	18

Electives

12-13

124**

*See Prerequisites

**Must include at least 40 upper division
(300-400 level) hours.**BACHELOR OF ARTS WITH
A MAJOR IN ART****Emphasis II****Graphic Communications**

Semester Hours

**General Education Requirements
(see page 41)**

46

**Computer Literacy Requirement
—determined by the
Art Department**

2-3

**Foreign Language (two courses
in one language)**

10

Art Requirements

53

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture	3
Art 205 Beginning Jewelry*	3
OR	
Art 230 Basic Form*	3

Art 232 Beginning Painting*	3
Art Art History or Seminar (upper division)	9
Art 300 Advanced Drawing* OR	
Art 421 Life Drawing*	3
Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Art 325 Graphic Communications I*	3
Art 350 Graphic Communications II*	3
Art 425 Graphic Communications III*	3
Art 450 Graphic Communications IV*	3
Art 490 Senior Exhibit*	2
Electives**	12-13
	124***

*See Prerequisites

**Suggested Elective Courses:

OA 101 Typewriting	3
Draf 110 Beginning Drafting	3
Comm 120 Mass Communications	3
CJAd 210 Beginning Photography	3
MM 300 Principles of Marketing	3
Bus 320 Business Correspondence	3
MM 401 Promotional Strategy	3
Th 441 Stage Design	3

***Must include at least 40 upper
division (300-400 level) hours.**BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR
IN ART****Plan A****One of Two Teaching Fields**

Semester Hours

**General Education Requirements
(see page 41) 46***

40

Art Requirements

42

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing**	3
Art 132 Introduction to Design	3
Art 211 Beginning Sculpture**	3
Art 220 Art Education	3
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3

Art 312 Beginning Printmaking**	3
Art History (upper division)	9
Art Electives	6

Second Teaching Field

(some fields exceed 30 hours)

30

Education Certification Requirements

(see page 118)

37

149***

*Required courses in Art and Psychology
satisfy Major requirements and 6 hours of
General Education.

**See Prerequisites

*** (Varies with 2nd Field)

**BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR
IN ART****Plan B****Single Teaching Field**

Semester Hours

**General Education Requirements
(see page 41) 46***

40

Art Requirements

50

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing**	3
Art 211 Beginning Sculpture	3
Art 220 Art Education	3
Art 132 Introduction to Design	
OR	
Art 230 Basic Form**	3
Art 232 Beginning Painting**	3
Art 312 Beginning Printmaking**	3
Art Art History or Seminar (upper division)	9
Art 490 Senior Exhibit 2	
Art Electives	15

Education Certification Requirements

(see page 118)

37

127

*Required courses in Art and Psychology
satisfy Major requirements and 6 hours of
General Education.

**See Prerequisites.

MINOR IN ART

Semester Hours

Art 100 Art Composition	3
Art 120 Beginning Ceramics	3
Art 130 Beginning Drawing*	3

ARTS AND SCIENCES

ART

Art 312 Beginning Printmaking*	3
Art 211 Beginning Sculpture*	
OR	
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Art 110 Art Appreciation	
OR	
Art Art History	3
Art 232 Beginning Painting*	
OR	
Art 310 Watercolor	3

21

*See Prerequisites

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1002

Art Major

Emphasis I: Studio Art

Freshman Year

1st Semester

Course	Hours
Art 100 Art Composition	3
Gen Ed [Eng 101 English Composition]	3
Psy 120 College Orientation	1
Art 130 Beginning Drawing*	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [Econ 180 American Economic System]	3

16

2nd Semester

Art 132 Introduction to Design	3
Gen Ed [Eng 102 English Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Gen Ed [HPER 101 P.E. Activity]	2
Gen Ed [HPER 160 Personal Health]	2

16

Sophomore Year

1st Semester

Art 120 Beginning Ceramics	3
Gen Ed [Bio 101 General Biology]	4
Art 232 Beginning Painting*	3
Gen Ed [Humanities and Fine Arts - not Art]	3
Gen Ed [Comm 100 Oral Communication]	3

16

2nd Semester

Art 211 Beginning Sculpture*	3
Art 312 Beginning Printmaking*	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Electives	
Art Art History**	3

17

Junior Year

1st Semester

Art Art History**	3
Gen Ed [Foreign Language]	5
Art Electives	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [Behavioral and Social Sciences]	3

17

2nd Semester

Art Art History**	3
Gen Ed [Foreign Language]	5
Art Electives approved by the advisor	6
Gen Ed [Literature]	3

17

Senior Year

1st Semester

Art 490 Senior Exhibit*	2
Art Electives approved by the advisor***	6
Art Any computer course approved by the advisor	2-3
Electives Approved by the advisor***	6

16-17

2nd Semester

Art Electives approved by the advisor***	6
Electives Approved by the advisor***	6

12

*See Prerequisites

**9 hours required—select from Art 301, 302, 303 or

304 Art History

***select from 300 or 400 level courses

[] Department Recommendation

BACHELOR OF ARTS

Major Code 1002

Art Major

Emphasis II: Graphic Communications

Freshman Year

1st Semester

Course	Hours
Elective [Draf 110 Introductory Drafting]	3
Art 100 Art Composition	3
Gen Ed [Eng 101 Composition]	3
Art 110 Art Appreciation	3
Psy 120 College Orientation	1
Art 130 Beginning Drawing*	3

16

2nd Semester

Elective [OA 101 Typewriting]	3
Art 132 Intro to Design	3
Gen Ed [Eng 103 Technical Writing]	3
Gen Ed [Math 110 Intro to College Math]	3
Art 205 Beginning Jewelry*	
OR	
Art 230 Basic Form*	3
Gen Ed [HPER 101 P.E. Activity]	2

17

Sophomore Year

1st Semester

Elective [CJAD 210 Beginning Photography]	3
Art 325 Graphic Communications I	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Comm 103 Business & Professional Speech]	3
Art 232 Beginning Painting*	3

16

2nd Semester

Art 350 Graphic Communications II*	3
Gen Ed [Literature]	3
Gen Ed [HPER 160 Personal Health]	2
Gen Ed [Phys 100 Fund. of Physical Science]	5
Art 120 Beginning Ceramics	
OR	
Art 211 Beginning Sculpture*	3

16

Junior Year

1st Semester

Art 310 Watercolor*	3
Art 312 Beginning Printmaking*	3
Gen Ed [Foreign Language]	5
Art 425 Graphic Communications III*	3
Gen Ed [Hist 110 or 120 U.S. History]	3

17

2nd Semester

Art 450 Graphic Communications IV* ***	3
Gen Ed [Foreign Language]	5
Gen Ed [Any Economics course]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [Behavioral and Social Sciences]	3

17

Senior Year

1st Semester

Elective [MM 300 Principles of Marketing]	3
Gen Ed [Humanities and Fine Arts-not Art]	3
Art 300 Advanced Drawing*	3
Art Art History or Seminar**	3-6
Art 490 Senior Exhibit	2

14-17

2nd Semester

Elective [Bus 320 Business Communications]	3
Elective [MM 401 Promotional Strategy]	3
Art Art History or Seminar**	3-6
Elective [Comm 120 Mass Communications]	3

12-15

*See Prerequisites

**9 hours required—select from Art 301, 302, 303, 304, or 305.

***Satisfies departmental requirement for a computer application course.

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0831

Art Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Art 100 Art Composition	3
Art 130 Beginning Drawing*	3
Gen Ed [Eng 101 Composition]	3
Psy 120 College Orientation	1
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [HPER 101 P.E. Activity]	2
Gen Ed [Econ 180 American Economic System]	3

18

2nd Semester

Art 120 Beginning Ceramics	3
Art 132 Introduction to Design	3
Gen Ed [Psy 110 Human Growth & Development]	5
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3

17

Sophomore Year

1st Semester

Art 205	Beginning Jewelry*
OR	
Art 230	Basic Form*
Gen Ed	[HPER 160 Personal Health]
Gen Ed	[Bio 101 General Biology]
Art 232	Beginning Painting*
Gen Ed	[Comm 100 Oral Communication]

2nd Semester

Art 211	Beginning Sculpture*
Art 312	Beginning Printmaking*
Gen Ed	[Phys 100 Fund. of Physical Science]
Gen Ed	[PSc 120 Gov't; U.S., State, & Local]
Gen Ed	[Literature]

Junior Year

1st Semester

Art	Art History**
Educ 300	Clinical Experiences
Educ 330	Structures of Teaching Secondary
Educ 331	Microteaching
Educ 370	Introduction to Instructional Media
Art	Electives

2nd Semester

Art	Art History**
Psy 302	Exceptional Child
Psy 310	Educational Psychology
Educ 401	Use of Computer Software in Classroom***
Art	Electives
Gen Ed	[Behavioral and Social Sciences]

Senior Year

1st Semester

Art 490	Senior Exhibit*
Art	Electives
Educ 422	Reading in Secondary Schools
Art	Art History**

2nd Semester

Professional semester	16
Consult page 119 for specific course requirements	

*See Prerequisites

**9 hours required—select from Art 301, 302, 303, or 304—Art History.

***Satisfies departmental requirement for a computer application course.

[] Department Recommendation

After accumulating 21 hours in Art, students should make application for their Junior Review via their advisor.

Consult catalog for requirement for Plan A (Art instruction/certification for one of two teaching fields).

For additional information contact:

Mr. Jon Fowler

Office: 303 Art Building

Phone: Ext. 263

BIOLOGY**FACULTY:**

Prentice, Head; Elick, Gibson, Hendrix, Jackson, Messick, Bingman, Stebbins, Tillman

15 For the Biology, Biology Education or Environmental Health Technology Major, a required core of courses is offered that has been proven appropriate by student input, postgraduate survey, professional and graduate school acceptances, job placements and performance, and accrediting agencies. The remaining requirements to complete these majors are designed to allow the students to orient themselves toward their specific career goals. Additional requirements of appropriate mathematics and physical science courses are specified to augment the courses taken in the major.

17 The Biology Department offers three courses to satisfy the General Education requirement of a biological science course with laboratory—General Biology (Bio 101) or Man and Environment (Bio 110) or General Zoology (Bio 121).

BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

Semester Hours

General Education Requirements (see page 41) 46*

34

Computer Literacy Requirement determined by the Biology Department

2-3

Biology Requirements

40

Bio 101 General Biology 4

Bio 112 Botanical Survey** 3

Bio 122 Zoological Survey** 3

Bio 210 General Physiology** 4

Bio 211 Microbiology** 4

OR

Bio 231 Medical Microbiology** 5

Bio 305 Genetics** 4

Bio 490 Seminar** 1

Upper Division Botany

Elective** 3-4

Upper Division Zoology

Elective** 4-5

Upper Division Environmental

Elective** 4

Biology Electives 3-5

Supporting Requirements

25

Math 140 Algebra and Trigonometry**

OR

Math 150 Calculus with Analytic Geometry I** 5
 Chem 101 General Chemistry I** 5
 Chem 102 General Chemistry II** 5
 Chem 300 Introduction to Modern Organic Chemistry**

OR

Chem 301 Organic Chemistry I** 5
 Phys 151 Elementary College Physics I** 5

Electives

4-9

124***

*Required courses in Biology, Mathematics and Chemistry satisfy Major requirements and 12 hours of General Education.
 **See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

It is strongly recommended that PreProfessional Students take Chem 302 and Phys 152.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BIOLOGY**Plan A****One of Two Teaching Fields**

See: Minors-Biology Education

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN BIOLOGY**Plan B****Single Teaching Field**

Semester Hours

General Education Requirements

(see page 41) 46*

31

Computer Literacy Requirement —determined by the Biology Department

2-3

Biology Requirements

35

Bio 101 General Biology 4

Bio 112 Botanical Survey** 3

Bio 122 Zoological Survey** 3

Bio 211 Microbiology** 4

OR

Bio 231 Medical Microbiology** 5

Bio 305 Genetics** 4

Bio 306 Human Physiology and

Anatomy** 5

Upper Division Biology

Electives 11

Supporting Requirements

20

Math 140 Algebra and

Trigonometry** 5

Chem 101 General Chemistry I** 5

ARTS AND SCIENCES

BIOLOGY

Chem 102 General Chemistry II** 5
Chem 300 Introduction to Modern Organic Chemistry**

OR

Chem 301 Organic Chemistry I** 5

Education Certification Requirements

(see page 118)

Elective

35

0-1

124

*Required courses in Biology, Chemistry, Mathematics, and Psychology satisfy Major requirements and 15 hours of General Education.

**See Prerequisites

ENVIRONMENTAL HEALTH TECHNOLOGY

See: Environmental Health Technology

Page 144.

MINORS IN BIOLOGY

Minor in Biology (Botany-Horticulture Emphasis)

Semester Hours

Chem 100 Introductory Chemistry 5
Bio 101 General Biology 4
Bio 112 Botanical Survey 3
Bio 316 Economic Botany 3
Bio 271 Principles of Plant Propagation 3
Bio 440 Plant Pathology 4
Bio 322 Taxonomy of Flowering Plants 4
Bio 332 Introduction to Entomology 3
Bio 499 Problems in Biology (1-3 hrs.) 3
OR
Bio 450 Internship in Biology (1-8 hrs.) 1-8

30-37

Minor in Biology (Zoology-Health Science Emphasis)

Semester Hours

Bio 101 General Biology 4
Bio 121 Zoological Survey 3
Bio 331 Comparative Anatomy 5
Bio 431 Animal Physiology 5
Bio 433 Histology (4 hrs.) OR
Bio 462 Embryology (5 hrs.) 4-5
Bio 422 Invertebrate Zoology (5 hrs.)
OR

Bio 361 Parasitology (4 hrs.) 4-5
Bio 499 Problems in Biology 1-3

26-30

Minor in Biology (Environmental Health Emphasis)

Semester Hours

Bio 110 Man and Environment 4
Bio 231 Medical Microbiology 5
Bio 312 Environmental Biology
OR
Bio 370 Environmental Health 4
Bio 499 Problems in Biology (1-3 hrs.)
AND/OR
Bio 450 Internship in Biology (1-8 hrs.) 1-8
Upper Division Biology Electives 7-9

21-30

Minor in Biology (Biology Education)

Semester Hours

Bio 101 General Biology 4
Bio 122 Zoological Survey 3
Bio 211 Microbiology
OR
Bio 231 Medical Microbiology 5
Bio 305 Genetics 4
Bio 306 Human Physiology and Anatomy 5
Bio 499 Problems in Biology 13

22-24

Completion of the BIOLOGY EDUCATION MINOR plus the following courses will qualify the student for certification in Biology for grades 7-12 and is Plan A for the Bachelor of Science in Education:

Math 140 Algebra and Trigonometry 5
Chem 101 General Chemistry I 5
Phys 151 Elementary College Physics I 4
Bio 312 Environmental Biology
OR
Bio 402 General Ecology 4
Biology Electives 4

22

Gen Ed [HPER 101 P. E. Activity] 2
Gen Ed [Hist 110 or 120 U.S. History] 3
Gen Ed [Humanities and Fine Arts] 3
Psy 120 College Orientation 1

2

3

3

16

2nd Semester

Bio 122 Zoological Survey (Bio 101) 3
Math 140 Algebra and Trigonometry 5
Gen Ed [Eng 102 Composition II] 3
Gen Ed [Comm 100 Oral Communication] 3
Gen Ed [PSc 120 Gov't: U.S., State, & Local] 3

17

Sophomore Year

1st Semester

Bio 112 Botanical Survey (Bio 101) 3
Bio 211 Microbiology (Bio 101)
OR
Bio 231 Medical Microbiology (Bio 101) 5
Chem 101 General Chemistry I (Math 140) 5
Comp 115 Computing I or approved computer course 3

16

2nd Semester

Bio 305 Genetics (Bio 101, 211 or 231) 4
Bio 210 General Physiology (Bio 122, Chem 102) 4
Chem 102 General Chemistry II (Chem 101) 5
Gen Ed [Econ 180 American Economic System] 3

16

Junior Year

1st Semester

Bio 306 Human Physiology and Anatomy
OR
Bio 331 Comparative Vertebrate Anatomy 5
Chem 301 Organic Chemistry I (Chem 102) 5
Phys 151 Elementary College Physics I (Math 140) 5

15

2nd Semester

Bio 433 Histology (4 hrs.)
OR
Bio 462 Embryology (5 hrs.) 4-5
Bio 322 Plant Taxonomy 4
Gen Ed [Humanities and Fine Arts] 6

14-15

Senior Year

1st Semester

Bio 362 Virology 3
Bio 371 Plant Physiology 4
Bio 490 Seminar 1
Bio Electives 2
Gen Ed [Behavioral Science] 3
Gen Ed [HPER 160 Personal Health] 2

15

2nd Semester

Bio 402 Ecology 4
Bio 456 Immunology 3
Bio 381 Ornithology 3
Bio Electives 6

16

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 0401

Biology Major

Freshman Year

1st Semester Course Hours
Bio 101 General Biology 4
Gen Ed [Eng 101 Composition I] 3

4

3

[] Department Recommendation
() Prerequisite
For additional information contact:
Dr. Vonnice R. Prentice
Office: 216 Reynolds Hall
Phone: Ext. 239

Suggested Orders of Study

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0840

Biology Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Bio 101 General Biology	4
Gen Ed [Eng 101 Composition I]	3
Psy 110 Psychology of Human Development	5
Psy 120 College Orientation	1
Gen Ed [Hist 110 or 120 U. S. History]	3

2nd Semester

Bio 122 Zoology Survey (Bio 101)	3
Gen Ed [Eng 102 Composition II]	3
Math 140 Algebra & Trigonometry	5
Gen Ed [Comm 100 Oral Communication]	3
Comp 115 or approved computer course	3

Sophomore Year

1st Semester

Bio 112 Botanical Survey (Bio 101)	3
Chem 101 General Chemistry I (Math 130 or Math 140)	5
Phys 151 Elementary College Physics I	5
OR	
Geol 110 Introduction to Geology	3
Gen Ed [PSc 120 Gov't: U.S., State, & Local]	2
Gen Ed [HPER 101 P.E. Activity]	2

2nd Semester

Bio 211 Microbiology (Bio 101)	5
Bio 305 Genetics (Bio 101, 211 or 231)	4
Chem 102 General Chemistry II (Chem 101)	5
Gen Ed [Humanities and Fine Arts]	3

Junior Year

1st Semester

Chem 300 Introduction to Modern Organic Chemistry	3
---	---

OR

Chem 301 Organic Chemistry I (Chem 102)	5
Educ 300 Clinical Experience	2
Educ 330 Structures of Teaching/Secondary	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
Gen Ed [Humanities and Fine Arts]	3
Gen Ed [HPER 160 Personal Health]	2

2nd Semester

Bio 402 General Ecology (Biol 101, 112, 322 or consent)*	4
Psy 302 Exceptional Child (Psy 110)	2
Psy 310 Educational Psychology	2
Bio Electives	5
Gen Ed [Humanities and Fine Arts]	3

Senior Year

1st Semester

Bio 306 Human Physiology & Anatomy (Bio 121)	5
--	---

Gen Ed [Econ 180 American Economic System]	3
Bio Electives	5
Elective	3

2nd Semester

Professional Semester to include Educ 422

*Offered Spring Semester Only

() Prerequisite	
[] Department Recommendation-not necessarily in this order	

For additional information contact:

Dr. Vonnice R. Prentice
Office: 216 Reynolds Hall
Phone: Ext. 239

Suggested Orders of Study

Major Code 7005

Pre-Medicine

Major Code 7002

Pre-Dentistry

Major Code 7005

Pre-Veterinary

(This program will also qualify the student for the Bachelor of Science in Biology)

Freshman Year

1st Semester

Course	Hours
Bio 101 General Biology	4
Chem 101 General Chemistry I	5
Math 140 Algebra & Trigonometry	3
OR	
Math 150 Calculus w/Analytic Geometry	5
Gen Ed [HPER 101 P. E. Activity]	2
Psy 120 College Orientation	1

2nd Semester

Bio 122 Zoological Survey (Bio 101)	3
Chem 102 General Chemistry II (Chem 101)	5
Comp 115 Computing I	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Comm 100 Oral Communication]	3

Sophomore Year

1st Semester

Bio 112 Botanical Survey (Bio 101)	3
Bio 211 Microbiology (Bio 101)	5
Phys 151 Elementary Physics I (Math 140)	5
Gen Ed [HPER 160 Personal Health]	2
Gen Ed [Eng 102 Composition II]	3

2nd Semester

Bio 305 Genetics (Bio 211 or 231)	4
Phys 152 Elementary Physics II (Phys 151)	3
Gen Ed [Psy 110 Psychology of Human Development]	5
Bio 210 General Physiology (Bio 122 & Chem 102)	4

Junior Year

1st Semester

Bio 331 Comparative Anatomy	5
Chem 301 Organic Chemistry I (Chem 102)	5
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Humanities and Fine Arts]	3

2nd Semester

Bio 318 Cell Biology	4
OR	
Bio 456 Immunology	3
Chem 302 Organic Chemistry II (Chem 301)	5
Bio 462 Embryology	5
Gen Ed [Humanities and Fine Arts]	3

Senior Year

1st Semester

Bio 316 Economic Botany	3
Bio 431 Animal Physiology	5
OR	
Bio 433 Histology	4
Bio 490 Seminar	1
Gen Ed [Humanities and Fine Arts]	3
Chem 201 Analytic Chemistry I	5

2nd Semester

Bio 402 General Ecology	4
Bio 306 Human Physiology & Anatomy	5
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [PSc 120 Gov't: U.S., State, & Local]	3
Math 310 Elementary Statistics (Math 130)	3

*Pre-Vet students must also enroll in Animal Science and Animal Nutrition prior to acceptance at the University of Missouri Veterinary School.

Students should also check with the pre-med advisor about any specific professional school. The individual school may have some other specific requirement.

[] Department Recommendation	
() Prerequisite	

For additional information contact:

Dr. Vonnice R. Prentice (Pre-Med)
Office: 216 Reynolds Hall
Phone: Ext. 239

Mr. David Tillman (Pre-Dental)

Office: 310 Reynolds Hall
Phone: Ext. 278

Dr. E. Sam Gibson (Pre-Vet)

Office: 308D Reynolds Hall
Phone: Ext. 278

Major Code 7006

Pre-Optometry

(This program will also qualify the student for the Bachelor of Science in Biology.)

Freshman Year

1st Semester

Course	Hours
Bio 101 General Biology*	4
Chem 101 General Chemistry I (Math 140)*	5
Math 140 Algebra & Trigonometry	5
Psy 120 College Orientation	1
Gen Ed [HPER 101 P. E. Activity]	2

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CHEMISTRY

2nd Semester	Hours
Course	
Bio 122 Zoological Survey	3
Chem 102 General Chemistry II (Chem 101)*	5
Gen Ed [Eng 101 Composition I]*	3
Comp 115 Computing I	3
Gen Ed [Comm 100 Oral Communication]*	3
	17

Sophomore Year

1st Semester	Hours
Course	
Bio 112 Botanical Survey (Bio 101)*	3
Bio 305 Genetics (Bio 101, 211 or 231)	4
Gen Ed [Eng 102 Composition II]*	3
Math 150 Calculus with Analytic Geometry (Math 140)*	5
Gen Ed [HPER 160 Personal Health]	2
	17

2nd Semester	Hours
Course	
Bio 211 Microbiology (Bio 101)	5
Bio 210 General Physiology (Bio 122 and Chem 102)*	4
Gen Ed [Psy 100 General Psychology]*	3
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Hist 110 or 120 U.S. History]*	3
	18

Junior Year

1st Semester	Hours
Course	
Phys 151 Elementary College Physics I*	5
Chem 301 Organic Chemistry I (Chem 102)*	5
Bio 433 Histology	4
Psy 300 Child Development	
OR	
Psy 301 Adolescent Psychology	3
	17

2nd Semester	Hours
Course	
Phys 152 Elementary College Physics II (Phys 151)*	3
Chem 302 Organic Chemistry II (Chem 301)	5
Bio 318 Cell Biology (4 hrs)	
OR	
Bio 456 Immunology (3 hrs)	3-4
Math 310 Elementary Statistics*	3
Gen Ed [Humanities and Fine Arts]	3
	17-18

Senior Year

1st Semester	Hours
Course	
Bio 316 Economic Botany	3
Bio 431 Animal Physiology	5
Bio 490 Seminar	1
Electives	4-5
Gen Ed [PSc 120 Government; U.S., State, & Local]	3
	16-17

2nd Semester	Hours
Course	
Bio 402 General Ecology (Spring only)	
OR	
Bio 312 Environmental Biology (Fall only)	4
Bio 306 Human Physiology and Anatomy	5
Electives	3
Gen Ed [Humanities and Fine Arts]	6
	18

*Indicate courses which satisfy minimum requirements for admission into Optometry School. Application may be made with 90 semester hours. Strong preference is given to applicants who hold the Bachelor's Degree.

[] Department Recommendation
() Prerequisite

For additional information contact:
Dr. E. Sam Gibson
Office: 308D Reynolds Hall
Phone: Ext. 278

Pre-Physical Therapy

FOR TRANSFER TO UNIVERSITY OF MISSOURI-COLUMBIA

Freshman Year

1st Semester	Hours
Course	
Gen Ed [Eng 101 Composition]	3
Math 140 Algebra & Trigonometry	5
Bio 121 General Zoology	4
Gen Ed [Psy 100 General Psychology]	3
Psy 120 College Orientation	1
	16

2nd Semester	Hours
Course	
Gen Ed [Eng 102 Composition]	3
Psy 311 Applied Statistics-Behavioral & Natural Science	3
Gen Ed [PSc 120 Government; U.S., State, & Local]	3
Bio 306 Human Physiology and Anatomy (Bio 121)	5
Gen Ed [Comm 100 Oral Communication]	3
	17

Sophomore Year

1st Semester	Hours
Course	
Phys 151 Elementary College Physics	5
Psy 221 Psychology of Personal Adjustment	3
Soc Sci Elective	3
Gen Ed [Humanities and Fine Arts]	3
Psy 310 Educational Psychology	2
	16

2nd Semester	Hours
Course	
Chem 101 General Chemistry I (Math 140)	5
Bio 210 General Physiology (Bio 121)	4
Gen Ed [Humanities and Fine Arts]	3
Gen Ed [HPER 101 P. E. Activities]	2
	14

Apply for admission to Physical Therapy School University of Missouri-Columbia residence. Residents of other states should consult with Mr. Tillman, Department of Biology, as individual Schools of Physical Therapy may require different prerequisites. Completion of the above course does not automatically admit an applicant into the physical therapy program at the University of Missouri.

() Prerequisites
[] Department Recommendations

An Associate of Arts degree may be awarded if one of the Humanities electives is a literature course.

For additional information contact:
Mr. David Tillman
Office: 310 Reynolds Hall
Phone: Ext. 278

CHEMISTRY

FACULTY:

Baiamonte, Head; Albright, Kash, Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels, and information science. Moreover, an education in Chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry, and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

General Education requirements for Physical Science can be met with any 5 semester hour chemistry course.

BACHELOR OF ARTS WITH A MAJOR IN CHEMISTRY

	Semester Hours
General Education Requirements	
(see page 41) 46*	38
Foreign Language (two courses in one language)	10
Chemistry Requirements	28
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 300 Intro to Modern Organic Chemistry (5 hrs.) and Upper Division Chemistry Electives (8 hrs.) excluding Chem. 301 and Chem 302.**	13
OR	
Chem 301 Organic Chemistry I (5 hrs.), Chem. 302 Organic Chemistry. II (5 hrs.), Upper Division Chem. Electives (3 hrs.) excluding Chem. 300**	13
Supporting Requirements	16
Phys 151 Elementary College Physics I**	5

Phys 152 Elementary College Physics II**	3
Math 140 Algebra and Trigonometry**	5
Comp 115 Computing I OR	
Comp 200 Advanced Personal Computing with Graphics	3
Electives	32
	124***

*Required Physics and Mathematics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites.

***Must include at least 40 upper division (300 - 400 level) hours.

Note: A Bachelor of Arts Degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY

General Education Requirement (see page 41) 46*	Semester Hours 38
Chemistry Requirements	33
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 402 Physical Chemistry II**	4
Supporting Requirements	23
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Comp 115 Computing I OR	
Comp 200 Advanced Personal Computing with Graphics	3
Electives***	30
	124***

*Required Physics and Mathematics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites.

***Suggested Electives (Chem 421, Chem 422, Chem 472, Math 260, Math 322, Phys 372, Phys 341)

****Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN CHEMISTRY

Plan A One of Two Teaching Fields

General Education Requirements (see page 41) 46*	Semester Hours 31
Chemistry Requirements	27
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 499 Problems Laboratory	2
Supporting Requirements	17
Phys 151 Elementary College Physics I**	5
Math 140 Algebra and Trigonometry**	5
Bio 110 Man and Environment	4
Comp 115 Computing I OR	
Comp 200 Advanced Personal Computing with Graphics	3

Education Certification Requirements (see page 118)

Second Teaching Field (some fields exceed 30 hours)

*Required Physics, Mathematics, Psychology, and Biology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites.

*** (Varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN CHEMISTRY

Plan B Single Teaching Field

General Education Requirements (see page 41) 46*	Semester Hours 31
Chemistry Requirements	31
Chem 101 General Chemistry I**	5
Chem 102 General Chemistry II**	5
Chem 201 Analytical Chemistry I**	5
Chem 301 Organic Chemistry I**	5
Chem 302 Organic Chemistry II**	5
Chem 401 Physical Chemistry I**	4
Chem 499 Problems Laboratory	2
Supporting Requirements	27
Phys 250 General Physics I**	5
Phys 260 General Physics II**	5
Math 150 Calculus with Analytical Geometry I**	5
Math 250 Calculus with Analytical Geometry II**	5
Bio 110 Man and Environment	4
Comp 115 Computing I OR	
Comp 200 Advanced Personal Computing with Graphics	3
Education Certification Requirements (see page 118)	35
	124

*Required Physics, Mathematics, Psychology, and Biology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites.

MINOR IN CHEMISTRY

Semester Hours	
Chem 101 General Chemistry I*	5
Chem 102 General Chemistry II*	5
Chem Electives** (Excluding Chem 100, Chem 298, Chem 498 and Chem 499)	8
	18
*See Prerequisites	
**Chem 300 and Chem 301 cannot be used together to satisfy the 8 hour requirement.	

ARTS AND SCIENCES

COMMUNICATIONS

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1905

Chemistry Major

Freshman Year

1st Semester

Course		Hours
Chem 101	General Chemistry I (Algebra & Trigonometry)	5
Math 140	Algebra & Trigonometry OR (Math 150 Calculus I)	5
Gen Ed	[Eng 101 Composition]	3
Psy 120	College Orientation	1
		14

2nd Semester

Chem 102	General Chemistry II (Chem 101)	5
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[HPER 101 Physical Activities]	2
Electives	(Second area of concentration)	3
Comp 115	Computing I	3
		16

Sophomore Year

1st Semester

Chem 301	Organic Chemistry I* OR Chem 201 Analytical Chem I	5
Phys 151	Elementary College Physics I	5
Gen Ed	[HPER 160 Personal Health]	2
Electives	(Second area of concentration)	5
		17

2nd Semester

Chem 302	Organic Chemistry II* OR Chem 300 Intro to Modern Organic Chemistry	5
Phys 152	Elementary College Physics II (Phys 151)	5
Gen Ed	[PSc 120 Gov't: U.S., State, & Local]	3
Electives	(Second area of concentration)	5
		18

Junior Year

1st Semester

Chem 201	Analytical Chemistry I (5 hrs) OR Chem [Upper Division Elective]	4-5
	Foreign Language	5
Gen Ed	[Communications]	3
Gen Ed	[Literature]	3
		15-16

2nd Semester

Chem	Elective-Upper Division	4
	Foreign Language	5
Gen Ed	[Behavioral & Social Science]	3
Gen Ed	[Bio 101 General Biology]	4
		16

Senior Year

1st Semester

Gen Ed	[Humanities & Fine Arts]	3
Gen Ed	[Econ 180 American Economic System]	3
Electives		10
		16

2nd Semester

Gen Ed	[Humanities & Fine Arts]	3
Electives		12
		15

*Student may elect either Chem 300 plus 8 hours of upper division Chemistry (excluding Chem 301 and Chem 302) or Chem 301 and Chem 302 plus 3 hours of upper division Chemistry electives (excluding Chem 300).

() Prerequisites

[] Department Recommendation

For additional information contact:

Dr. Vernon Baiamonte

Office: 218 Reynolds Hall

Phone: Ext. 241

COMMUNICATIONS

FACULTY:

Massa, Head; Bodon, Carney, Clark, Finton, Merriam, Peterson, Stebbins, Yocum

Two options, or two separate fields of study, exist for the major in communications for the Bachelor of Arts degree. Option One, Speech Communication, provides students the opportunity to develop a field of study in the theory, the history, and the skills of oral communication. It is an especially valuable major for many pre-professional schools, such as law. Option Two, Mass Communication, allows students to attain a high level of proficiency in the skills required for media in modern society. Print journalism, the electronic media, and public relations are three specific areas of preparation. Laboratories in both the print and electronic media, outfitted with state-of-the-art equipment, permit students hands-on experience from the beginning of their college careers. The department publishes a weekly college newspaper and the college yearbook, and operates MSTV, Missouri Southern Television, a cable television service, and KXMS, a stereo-FM radio station. Through KOZJ, a PBS-affiliated television station serving the tri-state area of Missouri, Kansas, and Oklahoma, students receive additional opportunities for media training. Complementing both the speech communication and the mass communication major is a strong debate program which has achieved national recognition. A Bachelor of Science in Education degree is offered in cooperation with the Department of Theatre for students who wish to teach speech/drama at the high school level.

General Education requirements for one course in Area 1, section B, are fulfilled by any of the following: Comm 100, Oral Communication; Comm 103, Business

and Professional Speech, recommended for business and management majors; or Comm 131, Voice and Articulation, recommended for education majors.

BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATIONS

Option I: Speech Communication

	Semester Hours
General Education Requirements (see page 41) 46*	40

Computer Literacy Requirement: Comp 105 Introduction to Microcomputer Use	3
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Foreign Language (two courses in one language)	10
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Communications Requirements 41

Comm 100 Oral Communication	3
Comm 101 Introduction to Human Communication	3
Comm 120 Mass Communications Theory	3
Comm 215 Interpersonal Communication**	3
Comm 131 Voice and Articulation	3
Comm 300 Organizational Communication**	3
Comm 411 Political and Social Communication**	3
Communication Electives (at least 6 upper division hours)	20

Supporting Requirements 9

French, Spanish, or German—

One course beyond B.A. requirement

Allied discipline (upper division)

Electives 22-23
124****

*Required courses in Communication and Foreign Language satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***An "allied discipline" is a field of study, outside the Department of Communications, which is aligned to the career goal of the individual student.

****Must include at least 40 upper division (300 - 400 level) hours.

COMMUNICATIONS

BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATIONS**Option II: Mass Communication**

	Semester	Hours
General Education Requirements (see page 41) 46*	40	

Computer Literacy Requirement: Comp 105 Introduction to Microcomputer Use	3	
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Foreign Language (two courses in one language)	10	
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Communications Requirements

Comm 100 Oral Communication	3	
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Comm 101 Introduction to Human		
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Communication	3	
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Comm 120 Mass		
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Communications		
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Theory	3	
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Comm 215 Interpersonal		
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Communication**	3	
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Comm 111 Newswriting	3	
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Comm 220 Practicum in		
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Communications**	1	
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Comm 310 Communication Law	3	
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Comm 325 Broadcast News		
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Reporting**	3	
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Comm 330 Advanced Practicum in		
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Communication**	2	
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Communication Electives (at		
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least 4 upper division hours)	23	
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French, Spanish, or German—		
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One course beyond B.A.		
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requirement	3	
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Electives	21-22	
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	124***	
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*Required courses in Communication and Foreign Language satisfy both courses in the Major and 6 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours. Courses numbered 300 and above in history, political science, sociology, business, and psychology are recommended.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPEECH COMMUNICATION AND THEATRE**Plan B Single Teaching Field**

	Semester	Hours
General Education Requirements (see page 41) 46*	43	

Communications Requirements	12	
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Comm 101 Introduction to Human		
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Communication	3	
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Comm 215 Interpersonal		
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Communication**	3	
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Comm 304 Small Group		
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Communication**	3	
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Comm 315 Argumentation and		
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Debate**	3	
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Theatre Requirements	17	
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Th 142 Theatre Technology	3	
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Th 212 Oral Interpretation	3	
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Th 331 History of the Theatre	3	
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Th 332 History of the Theatre	3	
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Th 351 Directing I	3	
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Th 121, 122, 221, or 222—		
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Theatre Laboratory	2	
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Electives in Communications	15**	
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and/or Theatre		
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Education Certification Requirements	37***	
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(see page 118)	124	
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*Required courses in Theatre satisfy both Major requirements and 3 hours of General Education.

**See Prerequisites

***Must be approved in advance by the student's advisor who must be selected from either the area of speech communication or theatre.

****Computer literacy requirements will normally be met through courses in the Department of Education. Students may wish to substitute an appropriate course with prior approval of their advisor.

MINOR IN COMMUNICATIONS

	Semester	Hours
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Comm Electives (lower or upper		
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division)	15	
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Comm Electives (upper division)	6	
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	21*	
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*Must be selected in close advisement with a faculty member in the Department of Communications.

Suggested Orders of Study**BACHELOR OF ARTS**

Major Code 0600

Communications Major**Mass Communications Option****Broadcast Emphasis****Freshman Year**

1st Semester

Course

Comm 101 Intro to Human Communication	Hours	3
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Comm 100 Oral Communication	3
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Comm 111 Newswriting	3
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Gen Ed [HPER 101 P.E. Activity]	2
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Psy 120 College Orientation	1
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Gen Ed [Eng 101 Composition]	3
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	15
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2nd Semester	
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Comm 120 Mass Communications Theory	3
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Gen Ed [Eng 102 Composition]	3
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Gen Ed [Math 110 Intro to College Math]	3
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Gen Ed [Bio 101 General Biology]	4
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Comm 130 Intro to Broadcasting	3
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	16
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Sophomore Year	
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1st Semester	
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Comm 215 Interpersonal Communication	3
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Comm 200 Radio Production	4
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Foreign Language	5
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Comp 105 Intro to Microcomputer Use	3
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Gen Ed [HPER 160 Personal Health]	2
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	17
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2nd Semester	
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Comm 201 Television Production	4
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Foreign Language	5
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Gen Ed [Econ 180 American Economic	
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System]	3
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Gen Ed [Humanities and Fine Arts]	3
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Comm 301 Broadcast, Cable Management	3
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	18
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Junior Year	
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1st Semester	
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Comm 325 Broadcast News Reporting	3
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Foreign Language	3
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Gen Ed [Phys 100 Fund of Physical Science]	5
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Gen Ed [Literature (upper division)]	3
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Gen Ed [Psy 100 Gen Psy or Soc 110 Intro	
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to Soc]	3
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	17
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2nd Semester	
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Comm 220 Practicum in Communications	1
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Comm 310 Communication Law	3
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**Supporting Electives [upper division]	6
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Comm 233 Copyediting	3
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Gen Ed [Hist 110 or 120 U.S. History]	3
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	16
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Senior Year	
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1st Semester	
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Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
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**Supporting Electives [upper division]	9
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Electives or Minor [upper division]	5
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	17
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2nd Semester	
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Comm Electives [upper division]	5
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Comm 330 Advanced Practicum in	
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Communications	2
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Electives or Minor	5
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	12
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**Supporting electives selected from upper division history, business, political science, sociology, or psychology.

[] Department Recommendation

For additional information contact:

Mr. Richard Massa

Office: MSTV

Phone: Ext. 625-9372

ARTS AND SCIENCES

COMMUNICATIONS

BACHELOR OF ARTS

Major Code 0600

Communications Major

Mass Communications Option

Newspaper Emphasis

Freshman Year

1st Semester

Course	Hours
Comm 101 Intro to Human Communication	3
Comm 100 Oral Communication	3
Gen Ed [Eng 101 Composition]	3
Comm 111 Newswriting	3
Gen Ed [HPER 101 P.E. Activity]	2
Psy 120 College Orientation	1
	15

2nd Semester

Comm 120 Mass Communications Theory	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Bio 101 General Biology]	4
Comm 233 Copyediting	3
Comm 220 Practicum in Communications	1
	17

Sophomore Year

1st Semester

Comm 215 Interpersonal Communication	3
Comm 231 Feature Writing	3
Foreign Language	5
Comp 105 Intro to Microcomputer Use	3
Gen Ed [HPER 160 Personal Health]	2
	16

2nd Semester

Comm 130 Introduction to Broadcasting	3
Foreign Language	5
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Humanities and Fine Arts]	3
**Supporting Elective [upper division]	3
	17

Junior Year

1st Semester

Comm 302 Photocommunications	3
Foreign Language	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [Literature (upper division)]	3
Comm 200 Radio Production	4
	18

2nd Semester

Comm 201 Television Production	4
Comm 310 Communication Law	3
Gen Ed [Psy 100 Gen Psy or Soc 110 Intro to Soc]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
**Supporting Elective [upper division]	3
	16

Senior Year

1st Semester

Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
**Supporting Electives [upper division]	9
Electives or Minor [upper division]	5
	17

2nd Semester

Comm 330 Advanced Practicum in Communications	2
Comm Electives [upper division]	6
Electives or Minor [upper division]	4
	12

**Supporting electives selected from upper division history, business, political science, sociology, or psychology (3 hours).

[] Department Recommendation

For additional information contact:

Mr. Richard Massa

Office: MSTV

Phone: Ext. 625-9372

BACHELOR OF ARTS

Major Code 0600

Communication Major

Speech Communication Option

Freshman Year

1st Semester

Course	Hours
Comm 100 Oral Communication	3
Comm 101 Intro to Human Communication	3
Comm 121 Forensics Workshop	1
Gen Ed [Eng 101 Composition]	3
Gen Ed [Econ 180 American Economic System]	3
Psy 120 College Orientation	1
	14

2nd Semester

Comm 120 Mass Communications Theory	3
Comm 131 Voice & Articulation	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [HPER 101 P.E. Activity]	2
Comp 105 Intro to Microcomputer Use	3
	14

Sophomore Year

1st Semester

Comm 215 Interpersonal Communication	3
Comm 315 Argument & Debate	3
Foreign Language	5
Gen Ed [Phys 100 Fund of Physical Science]	5
	16

2nd Semester

Comm Elective	3
Foreign Language	5
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Psy 100 Gen Psy or Soc 110 Intro to Soc]	3
Gen Ed [HPER 160 Personal Health]	2
	17

Junior Year

1st Semester

Comm 304 Small Group Communication	3
Comm 300 Organizational Comm	3
Comm 321 Forensics Workshop	1
Upper Division [Allied discipline]	6
Foreign Language	3
	16

2nd Semester

Comm Electives [upper division]	6
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Literature or Fine Art]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
	15

Senior Year

1st Semester

Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [Literature (upper division)]	3
Comm Electives [upper division]	6
Electives [upper division]	6
	18

2nd Semester

Comm 411 Political and Social Communication	3
Electives [upper division]	4
Electives	8
	15

[] Department Recommendation

For additional information contact:

Mr. Richard Massa

Office: MSTV

Phone: Ext. 625-9372

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0844

Speech-Theatre Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Comm 101 Intro to Human Communication	3
Comm 100 Oral Communication	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Psy 120 College Orientation	1
	16

2nd Semester

Comm 131 Voice & Articulation	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Comm 103 Bus and Prof Speech	3
	15

Sophomore Year

1st Semester

Comm 315 Argumentation and Debate	3
Psy 110 Psychology of Human Development	5
Gen Ed [Phys 100 Fund of Physical Science]	5
Comm 215 Interpersonal Communication	3
	16

2nd Semester

Educ 302 Exceptional Child	2
Psy 310 Educational Psych	2
Gen Ed [Bio 101 General Biology]	4
Gen Ed [HPER 101 P.E. Activity]	2
Educ 422 Teaching reading in Sec/Elem Schools	2
Educ 401 Computer Software in the Classroom	2
Comm Electives	3
	17

Junior Year

1st Semester

Educ 300 Clinical Experience	2
Comm 304 Small Group Communication	3
Comm 300 Organizational Communication	3
Th 331 History of Theatre	3
Educ 330 Structure of Teaching	2
Educ 331 Microteaching	2
Educ 370 Media	2
	17

2nd Semester

Th 212 Oral Interpretation	3
Th 332 History of Theatre	3

Gen Ed
[HPER 160 Personal Health]
Theatre Laboratory
Electives
Th 142 Theatre Technology

Senior Year**1st Semester**

Comm 411 Political and Social Communication 3
Comm 498 Seminars/Elective 3
Th 241 Acting I 3
Th 351 Directing I 3
Electives 3

2nd Semester

Educ 342 Teaching Speech or Theatre in
Secondary Schools 2
Professional Semester 14

[] Department Recommendation

For additional information contact:
Mr. Richard Massa
Office: MSTV
Phone: Ext. 625-9372

ENGLISH**FACULTY:**

Lambert, Head; Ackiss, Brattin, Brown, Butler, Couch, Denniston, Gale, Greenlee, Harder, Marlowe, Morgan, Preble, Saltzman, Simpson, Walters

The Department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills, and cultivate an appreciation of literature in all its variety. A major in English for the Bachelor of Arts degree has proved to be an excellent major for students who plan to enter business and industry, for students who plan to pursue graduate studies in English, and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications, and college teaching. Majors in English are expected to exhibit skills in writing, organization, and creativity, and they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the Bachelor of Science in Education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty aim to

develop in BSE majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking, and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental advisor for minors. Students should choose courses on the basis of their backgrounds, their major programs, and, above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as The English Club and Sigma Tau Delta Honor Society, through publications like *The Winged Lion*, and in projects like the Annual Colloquium and the English Field Day.

General Education requirements in literature can be met with any course offered by the department except freshman composition, English 216, 301, 310, 315, 319, 325, and 400. Students taking English courses to satisfy General Education requirements may find it beneficial to take a 100-200 level literature course before attempting any literature course above the 200 level. English 101 is a prerequisite to all courses except English 80 or 111. English 102, 103, or 111 is a prerequisite to all 300-400 level English courses.

BACHELOR OF ARTS WITH A MAJOR IN ENGLISH

	Semester Hours
General Education Requirements (see page 41)	40
Foreign Language (two courses in one language)	10
English Requirements	42
Eng 301 Modern Grammar	
OR	
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 315 Exposition	3
English Electives*	36
Electives	32
	124**

*Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student will also need to satisfy the computer literacy requirement as determined by the English Department.

**Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ENGLISH**Plan A One of Two Teaching Fields**

Semester Hours

General Education Requirements (see page 41)	37
English Requirements	30
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	
Eng 310 Professional Writing	
OR	
Eng 315 Exposition	3
English Electives*	15
Education Certification Requirements (see page 118)	35
Second Teaching Field (some fields exceed 30 hours)	30
	132

*Must be beyond freshman composition. The student will also need to satisfy the computer literacy requirement as determined by the English Department.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ENGLISH**Plan B Single Teaching Field**

Semester Hours

General Education Requirements (see page 41)	37
English Requirements	42
Eng 301 Modern Grammar	3
Eng 319 Composition for Teachers	3
Eng 330 Literature for Adolescents	3
Eng 400 History of the English Language	3
Eng 216 Creative Writing	
OR	

ARTS AND SCIENCES

FOREIGN LANGUAGES

Eng 310 Professional Writing	
OR	
Eng 315 Exposition	3
English Electives*	27
Education Certification Requirements	35
(see pages 118-120)	
Electives	10
	124

*Must be beyond freshman composition. The student will also need to satisfy the computer literacy requirement as determined by the English Department.

MINOR IN ENGLISH

	Semester Hours
Eng 216, 310, or 315	3
Eng courses at the 300-400 level	9
Eng Electives (beyond freshman composition)	9
	21*

*Should be chosen in consultation with an advisor in the English Department.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1501
English Major

Freshman Year

Course	Hours
Gen Ed [Eng 101 Composition]	3
Gen Ed [History 110 or 120]	3
Gen Ed Foreign Language	5
Gen Ed [Math 110 or equivalent]	3
Gen Ed [HPER 101 Introduction to P.E.]	2
Psy 120 College Orientation	1
	17

2nd Semester

Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Government]	3
Gen Ed [Foreign Language]	5
Eng Elective	3
Gen Ed [Economics]	3
	17

Sophomore Year

Course	Hours
Eng Elective	3
Gen Ed [Speech]	3
Gen Ed [Biological Science]	4
Gen Ed [HPER 160]	2
Eng 310 Professional Writing	3
	15

2nd Semester

Eng Elective	3
Eng Elective	3
Gen Ed [Physical Science]	5
OR	
Gen Ed [Behavioral and Social Science]	
OR	
Eng 216 Eng 315	3
Elective [Minor]	3
	17

Junior Year

Course	Hours
1st Semester	
Eng Elective	3
Eng 301 or Eng Elective	3
Eng Elective	3
Electives [Minor]	6
	15

2nd Semester

Eng 400 or Eng Elective	3
Eng Elective	3
Gen Ed [Fine Art]	3
Electives [Minor]	6
	15

Senior Year

Course	Hours
1st Semester	
Eng Elective	6
Electives [Minor]	9
	15

2nd Semester

Eng Electives	6
Electives [Minor]	9
	15

Students must choose one course from 216, 310, or 315. 310 is offered fall semesters only; 216 and 315 spring semesters only.

Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature will satisfy six hours of the General Education requirements.

For additional information contact:

Dr. Joseph Lambert
Office: 314 Hearnese Hall
Phone: Ext. 235

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0842

English Major (Plan B) Single Teaching Field

Note: Students following Plan A should consult an advisor in English and the other major to work out an individualized program.

Freshman Year

Course	Hours
1st Semester	
Gen Ed [Eng 101 Composition]	3
Psy 110 Psychology of Human Development	5
Gen Ed [Hist 110 or 120]	3
Gen Ed [Math 110 or equiv]	3
Gen Ed [HPER 101 Intro to P. E.]	2
Psy 120 College Orientation	1
	17

2nd Semester

Gen Ed [Eng 102 Composition]	3
Eng Elective 3 Gen Ed [PSc 120 Government]	3
Gen Ed [Biological Science]	4
Gen Ed [Economics]	3
	16

Sophomore Year

Course	Hours
1st Semester	
Eng Elective	3
Eng Elective	3
Gen Ed [HPER 160 Personal Health]	2
Gen Ed [Physical Science]	5
Gen Ed [Fine Arts]	3
	16

Course	Hours
2nd Semester	
Eng Elective	3
Eng Elective	3
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	3
Gen Ed [Comm 100]	3
	14

Junior Year

Course	Hours
1st Semester	
Eng 301 Modern Grammar	3
Eng 310 or Eng Elective	3
Eng 319 Composition for Teachers	3
Educ 330 Structure of Teaching	2
Educ 331 Microteaching	2
Educ 370 Media Instruction	2
Educ 300 Clinical Experience	2
	17

2nd Semester

Eng 400 History of English Language	3
Eng 216 or 315 or Eng Elective	3
Eng 330 Literature for Adolescents	3
Educ 422 Teaching Reading	2
Eng Electives	6
	17

Senior Year

Course	Hours
1st Semester	
Eng Electives	9
Electives	6
	15

2nd Semester

Professional Semester, including Methods in Major	16
	16

The Department recommends two courses in American Literature and two courses in English/World Literature. Six hours of literature will satisfy six hours of the General Education requirements.

For additional information contact:

Dr. Joseph Lambert
Office: 314 Hearnese Hall
Phone: Ext. 235

FOREIGN LANGUAGES

FACULTY:

Massa, Head; Bodon, Carney, Peterson

Training in foreign languages enables a student to prepare for employment as an interpreter, teaching at the high school level, participating in bi-lingual programs, and teaching English as a second language. Also, there are career opportunities in industry both in the United States and abroad.

Missouri Southern offers a major and a minor in Spanish and sufficient courses in French and German to meet foreign language requirements for Bachelor of Arts degree candidates in various majors as well as to develop a keener awareness of the multi-cultural aspects of world society in general and the society of the United States in specific.

Combining a major in Spanish with a major in business, in political science, or in communications is especially valuable. A minor in Spanish will enrich any student's educational experience.

A candidate for the Bachelor of Arts degree in any major is required to have 6-10 semester hours of a foreign language. This requirement may be met by any one of the following combination of courses: (a) French 101-102; or (b) German 101-102; or (c) Spanish 101-102; or, if qualified, (d) Spanish 103-104.

A student who takes any one of these four sequences of courses may then take a third course in the same foreign language (normally French, German, or Spanish 201) and fulfill one of the three course requirements in Area 2, Humanities and Fine Arts, of the General Education requirements. The student must also then take one course in one of the following areas of study: art, theatre, literature, music, and philosophy. The student is also required to take a course in literature from the Department of English. This course may be at any level for which the student is qualified, except Eng 325. A literature course in a foreign language does not fulfill this General Education Requirement in literature.

BACHELOR OF ARTS WITH A MAJOR IN SPANISH

	Semester Hours
General Education Requirements (see page 41)	46
Computer Literacy Requirement— determined by Foreign Language Department	2-3
Spanish Requirements*	30-34
Span 101 Beginning Spanish (5 hrs.)	
OR	
Span 103 Accelerated Beginning Spanish** (3 hrs.)	3-5
Span 102 Intermediate Spanish (5 hrs.)	
OR	
Span 104 Accelerated Intermediate Spanish** (3 hrs.)	3-5
Span 201 Readings and Conversation	3
Span 202 Introduction to Hispanic Literature and Culture	3
Span 319 Survey of Peninsular Literature	5

Span 320 Spanish Syntax and Composition	5
Span 332 Introduction to Spanish American Literature	3
Span 440 The Novelistic Tradition**	3
Span 499 Independent Study	2
Supporting Requirements	6
PSc 321 International Relations OR	
PSc 332 Comparative Government: Latin America	3
Comm 493 International Communication	
OR	
Geog 412 Geography and Culture of Latin America	3
Electives	35-40 124***

*A candidate for a degree in Spanish must also demonstrate proficiency in the language.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPANISH

	Semester Hours
Plan A	
One of Two Teaching Fields	
General Education Requirements (see page 41) 46*	40
Spanish Requirements**	32
Span 101 Beginning Spanish	5
Span 102 Intermediate Spanish	5
Span 201 Readings and Conversations	3
Span 202 Intro to Hispanic Literature & Culture	3
Span 319 Survey of Peninsular Literature	5
Span 320 Spanish Syntax and Composition	5
Span 332 Intro to Spanish American Literature	3
Span 440 The Novelistic Tradition***	3
Education Certification Requirements (see pages 118-120)	37
Second Teaching Field (some fields exceed 30 hours)	30 124****

*Required courses in Spanish and Psychology satisfy the requirements for the Major and 6 hours of General Education.

**A candidate for a degree under Plan A must also demonstrate proficiency in Spanish.

***See Prerequisites

****(varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SPANISH

	Semester Hours
Plan B	
Single Teaching Field	
General Education Requirements (see page 41) 46*	37
Spanish Requirements**	34
Span 101 Beginning Spanish (5 hrs.)	
OR	
Span 103 Accelerated Beginning Spanish*** (3 hrs.)	3-5
Span 102 Intermediate Spanish (5 hrs.)	
OR	
Span 104 Accelerated Intermediate Spanish*** (3 hrs.)	3-5
Span 201 Readings and Conversations	3
Span 202 Intro to Hispanic Literature & Culture	3
Span 319 Survey of Peninsular Literature	5
Span 320 Spanish Syntax and Composition	5
Span 332 Intro to Spanish American Literature	3
Span 440 The Novelistic Tradition***	3
Span 499 Independent Study	2
Supporting Requirements	6
PSc 321 International Relations OR	
PSc 332 Comparative Government: Latin America	3
Comm 493 International Communication	
OR	
Geog 412 Geography and Culture of Latin America	3
Education Certification Requirements (see pages 118-120)	37
Electives	10-14 124

ARTS AND SCIENCES

GEOGRAPHY

*Required courses in Spanish, psychology, and political science or geography satisfy both Major requirements and 9 hours of General Education.

**A candidate for a degree under Plan B must also demonstrate proficiency in Spanish.

***See Prerequisites

MINOR IN SPANISH

A minor in Spanish consists of 24 hours of Spanish to be selected with the prior approval of an appropriate advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1105

Spanish Major

Freshman Year

1st Semester

Course	Hours
Span 101 Beginning Spanish (5 hrs.)	
OR	
Span 103 Accelerated Beginning Spanish (3 hrs.)	3-5
Gen Ed [Eng 101 Composition]	3
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Psy 120 College Orientation	1
	13-15

2nd Semester

Span 102 Intermediate Spanish (5 hrs.)	
OR	
Span 104 Accelerated Intermediate Spanish (3 hrs.)	3-5
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [Fine Art]	3
Gen Ed [HPER 101 P.E. Activity]	2
	14-16

Sophomore Year

1st Semester

Span 201 Readings and Conversation	3
Gen Ed [Comm 100 Oral Communication]	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Psy 100 General Psychology or Soc 110 Intro to Sociology]	3
Gen Ed [Math 110 Intro to College Math]	3
	16

2nd Semester

Span 202 Intro to Hispanic Literature	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [Literature]	3
Gen Ed [Literature or Fine Art]	3
Gen Ed [HPER 160 Personal Health]	2
	16

Junior Year

1st Semester

Span 332 Intro to Spanish American Literature	3
Span 319 Survey of Peninsular Literature	5
Comp 105 Intro to Microcomputer Use	3
PSc 332 Comparative Gov't Latin America or	
PSc 321 International Relations	3
Electives	3
	17

2nd Semester

Span 320 Spanish Syntax and Composition	5
Comm 493 International Communication	
OR	
Geog 412 Geography and Culture of Latin America	3
Electives	9
	17

Senior Year

1st Semester

Span 499 Independent Study	2
Electives	15
	17

2nd Semester

Span 440 The Novelistic Tradition	3
Electives	9-14
	12-17

[] Department Recommendation

For additional information contact:

Dr. Carmen Carney
Office: 108 Mansion
Phone: Ext. 454

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0847

Spanish Major (Plan B)

Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Span 101 Beginning Spanish (5 hrs.)	
OR	
Span 103 Accelerated Beginning Spanish (3 hrs.)	3-5
Gen Ed [Eng 101 Composition]	3
Gen Ed [Econ 180 American Economic System]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Psy 120 College Orientation	1
Gen Ed [Math 110 or above]	3
	16-18

2nd Semester

Span 102 Intermediate Spanish (5 hrs.)	
OR	
Span 104 Accelerated Intermediate Spanish (3 hrs.)	3-5
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [Fine Arts]	3
Gen Ed [HPER 101 P.E. Activity]	2
	14-16

Sophomore Year

1st Semester

Span 201 Readings and Conversation	3
Gen Ed [Comm 100 Oral Communication]	3
Gen Ed [Bio 101 General Biology]	4
Psy 110 Psychology of Human Development	5
Gen Ed [HPER 160 Personal Health]	2
	17

2nd Semester

Span 202 Intro to Hispanic Literature	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [Literature]	3
Educ 302 Exceptional Child	2
Psy 310 Educational Psychology	2
Educ 422 Teaching Reading in Secondary Schools	2
	17

Junior Year

1st Semester

Span 332 Intro to Spanish American Literature	3
Span 319 Survey of Peninsular Literature	5
PSc 332 Comparative Gov't: Latin America	
OR	
PSc 321 International Relations	3
Educ 300 Clinical Experience	2
Educ 330 Structure of Teaching	2
Educ 331 Microteaching	2
	17

2nd Semester

Span 320 Spanish Syntax and Composition	5
Comm 493 International Communication	
OR	
Geog 412 Geography and Culture of Latin America	3
Educ 401 Computer Literacy	2
Educ 370 Media	2
Span 440 The Novelistic Tradition	3
	15

Senior Year

1st Semester

Span 499 Independent Study	2
Electives	10-14
	12-16

2nd Semester

Professional Semester, including Methods in Major

[] Department Recommendation

For additional information contact:

Dr. Carmen Carney
Office: 108 Mansion
Phone: Ext. 454

GEOGRAPHY

FACULTY:

Conboy, Head; Smith

Geography offers students a variety of employment possibilities. These range from positions in secondary education to opportunities in government and business planning.

A major is not offered at this time although sufficient hours to meet Social Studies teacher certification standards are available. Students may, with the supervision of a Social Sciences advisor, take a Geography Minor consisting of 18 semester hours.

MINOR IN GEOGRAPHY

Semester Hours
Geography 211 Regions and Nations 3
Choose 6 hours from: 6

Geog 311 Political Geography	3
Geog 322 Economic Geography	3
Geog 412 Geography and Culture of Latin America	3
Geog 422 Geography of the U. S. and Canada	3
Geog 498 Seminar in Geography	3

Choose 9 hours from:

Draf 230 Survey and Mapping	3
CJAD 210 Basic Photography	3
Comp 115 Computing I	3
Geol 300 Earth Environments	3
Geol 320 Historical Geology	3
PSc 322 International Law	3
PSc 332 Comparative Government: Latin America	3
Soc 152 Introduction to Anthropology	3
Soc 361 The Study of Populations*	3
Soc 402 The Community*	3

*See Prerequisites

GEOLOGY**FACULTY:**

Baiamonte, Head; Elick

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

HISTORY**FACULTY:**

Conboy, Head; Holman, Markman, Renner, Smith, Teverow

A Bachelor of Arts degree with a major in History prepares students for entering career positions in business, governmental and community service fields, and for entry into graduate programs in the Social Sciences and Law. A Bachelor of Science in Education with a major in Social Studies—History emphasis—certifies a student to enter professional teaching at the second-

ary school level. A minor in History is available for students majoring in other disciplines. In addition, see below for a Social Sciences minor or the Social Studies in Secondary Education minor.

General Education requirements and Missouri statute requirements are met by History 110 or History 120. Suggested courses to meet the General Education requirement in Social Sciences are History 130 or 140.

History 110 or 120 is a prerequisite for all upper division U. S. History courses.

History 130 or 140 is a prerequisite for all upper division European or Oriental History courses.

BACHELOR OF ARTS WITH A MAJOR IN HISTORY

Semester Hours
General Education Requirements 40
 (see page 41) 46* 51
Computer Literacy Requirement—determined by the Social Sciences Department 2-3

Foreign Language (two courses in one language) 10
History Requirements 33

Hist 110 United States History 1492-1877 3

Hist 120 United States History 1877 to Present or Hist 320 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Hist 498 Seminar in History** OR

Hist 499 Independent Study** 3

Upper Division United States History** 6

Upper Division European or Oriental History** 6

Upper Division History Electives** 6
Electives 38-39
 40-41 124***

*Required History courses satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

History Emphasis Plan B

Single Teaching Field

Semester Hours
General Education Requirements 34 33
 (see page 41) 46* 51
History Requirements 33

Hist 110 United States History 1492-1877 3

Hist 120 United States History 1877-Present or Hist 320 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Hist 498 Seminar in History** OR

Hist 499 Independent Study** 3

Upper Division United States History** 6

Upper Division European or Oriental History** 6

Upper Division History Electives** 6
Supporting Requirements 21

PSc 120 Gov't: U.S., State, & Local 3

Upper Division Political Science 3

Soc 110 Introduction to Sociology 3

Upper Division Sociology Elective 3

Geog 211 Regions and Nations 3

Upper Division Geography Elective 3

Econ 201 Principles of Economics (Macro) *American Economic System* 3

OR
 Other economics course 3

Education Certification Requirements 37
 (see pages 118-120) 125

*Required history, political science, sociology, and economics courses satisfy Major requirements and 12 hours of General Education.

**See Prerequisites

MINOR IN HISTORY

Semester Hours
 Hist 110 or Hist 120 United States History or Hist 320 3

used reference to minor in Soc. Studies for Soc. Educ. 1277

ARTS AND SCIENCES

MATHEMATICS

Hist 130 or Hist 140 Western Civilization	3
Upper Division United States History Electives*	6
Upper Division European or Oriental History Electives*	6
	18

*Must be chosen with approval of History advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2205

History Major

Freshman Year

Course	Hours
Gen Ed [Hist 110 or 120 U. S. History]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [HPER 101 P.E. Activity]	2
Gen Ed [Humanities and Fine Arts]	3
Psy 120 College Orientation	1
	15

2nd Semester

Hist 120 U. S. History 1877-Present or Hist 110	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't; U.S., State & Local]	3
Gen Ed [Bio 101 General Biology]	3
Gen Ed [HPER 160 Personal Health]	2
	15

Sophomore Year

Course	Hours
Hist 130 Western Civilization to 1660	3
Foreign Language	5
Gen Ed [Comm 100 Oral Communication]	3
Gen Ed [Literature]	3
Elective	3
	17

2nd Semester

Hist 140 Western Civilization 1660	3
Foreign Language	5
Gen Ed [Econ 201 Principles of Economics]	3
Gen Ed [Soc 110 Intro to Sociology]	3
[Computer Literacy course selected with advisor's approval]	3
	17

Junior Year

Course	Hours
Hist Upper Division U. S. History	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [Humanities and Fine Arts]	3
Elective [A minor is suggested]	3
	14

2nd Semester

Hist Upper Division U. S. History	3
Electives [A minor is suggested]	12
	15

Senior Year

Course	Hours
Hist Upper Division European or Oriental History	3
Hist Upper Division History	3
Electives [A minor is suggested]	3
	15

2nd Semester

Hist Upper Division European or Oriental	3
Hist Upper Division History	3
Hist 498 Seminar or Hist 499 Independent Study*	3
Electives [A minor is suggested]	7
	16

*See Prerequisites

[] Department Recommendation.

For additional information contact:

Dr. Robert Markman

Office: 206 Mansion

Phone: Ext. 247

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0843

Social Studies Major (Plan B)

Single Teaching Field

History Emphasis

Freshman Year

Course	Hours
Gen Ed [Hist 110 or 120 U. S. History]	3
Gen Ed [Eng 101 Composition]	3
Psy 110 Psychology of Human Development or Psy 100 & 301	5
Gen Ed [Math 110 Intro to College Math]	3
Psy 120 College Orientation	1
	15

2nd Semester

Hist 120 U. S. History 1877-Present or Hist 110	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't; U.S., State & Local]	3
Gen Ed [Bio 101 General Biology] or Bio 110 or 121	4
Gen Ed [HPER 101 P. E. Activity]	2
	15

Sophomore Year

Course	Hours
Hist 130 Western Civilization to 1660	3
Gen Ed [Comm 131 Voice & Artic] or Comm 100 or 103	3
Gen Ed [Literature]	3
Gen Ed [HPER 160 Personal Health]	2
Gen Ed [Phys 100 Fund of Physical Science]	5
	16

2nd Semester

Hist 140 Western Civilization 1660 to Present	3
Geog 211 Regions and Nations	3
Gen Ed [Soc 110 Intro to Sociology]	3
Gen Ed [Humanities and Fine Arts]	3
Psy 310 Educational Psychology	2
Educ 302 Exceptional Child	2
	16

Junior Year

Course	Hours
Hist Upper Division U. S. History	3
Gen Ed [Econ 201 (Macro) or other Econ course]	3
Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
Educ 401 Use of Computer Software in Classroom	2
	16

2nd Semester

Hist Upper Division U. S. History	3
Hist Upper Division European or Oriental History	3
Soc Upper Division Elective	3
Hist Upper Division Elective	3
PSc Upper Division Elective	3
	15

Senior Year

Course	Hours
Hist Upper Division Elective	3
Hist Upper Division European or Oriental History	3
Hist 498 Seminar in History or Hist 499 Internship	3
Geog Upper Division Elective	3
Gen Ed [Humanities and Fine Arts]	3
Educ 422 Reading in the Secondary School	2
	17

2nd Semester

Professional Semester	16
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See Page 119 for specific Education Department requirements.

For additional information contact:

Dr. G. K. Renner

Office: 114 Mansion

Phone: Ext. 287

MATHEMATICS

FACULTY:

Martin, Head; Bertch, Elick, Husni, Jolly, Kast, Livingston, Mulkey, Shields, Winn

In an increasingly technological society, applications of mathematics continue to increase in variety. Persons with quantitative ability and training are in high demand. Career opportunities exist in a diversity of fields such as engineering, computer science, economics, statistics, operations research, management, and education. Missouri Southern graduates are enjoying success in all of these areas. Some graduates choose to begin careers immediately upon graduation; others choose to continue their education in graduate school. The curriculum is designed to prepare students for either path.

For the student wishing to prepare for a career in engineering, the Mathematics Department and the Physical Science Department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the Department Head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

General Education requirements for the Bachelor's and the Associate of Arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions. General Education requirements for the Associate of Science degree can be met with any mathematics course numbered 030 or above.

BACHELOR OF SCIENCE WITH A MAJOR IN MATHEMATICS

Semester Hours

General Education Requirements (see page 41) 46*

38

Mathematics Requirements

39

Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math Electives numbered above 320	21

Supporting Requirements

18

Physics and/or Chemistry electives (Excluding Chem 100, Phys 120, Phys 140, Phys 180, Phys 300)	15
Comp 120 (or above)	3

Electives

29
124***

*Required Mathematics and Physics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS

Plan A

One of Two Teaching Fields

Semester Hours

General Education Requirements (see page 41) 46*

40

Mathematics Requirements

30

Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3
Math 332 Geometry	3
Math 342 Abstract Algebra**	3

OR

Math 351 Linear Algebra**	3
Math Electives numbered above 320***	6

Supporting Requirements

3

Comp 120 (or above)

3

Education Certification Requirements (see pages 118-120)

35

Second teaching field

(some fields exceed 30 hours)

30

138****

*Required courses in Mathematics and Psychology satisfy Major requirements and 6 hours of General Education.

**See Prerequisites

***Consult advisor to satisfy state certification requirements.

****(varies with 2nd field)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MATHEMATICS

Plan B

Single Teaching Field

Semester Hours

General Education Requirements (see page 41) 46*

35

Mathematics Requirements

33

Math 150 Calculus with Analytic Geometry I**	5
Math 250 Calculus with Analytic Geometry II**	5
Math 260 Calculus with Analytic Geometry III**	5
Math 300 Fundamentals of Mathematical Thought**	3

Math 332 Geometry	3
Math 342 Abstract Algebra**	3
OR	
Math 351 Linear Algebra**	3
Math Electives numbered above 320***	9

Supporting Requirements

13

Physics and/or Chemistry electives	
Excluding Chem 100, Phys 100, Phys 120, Phys 140, Phys 180)	10
Comp 120 (or above)	3

Education Certification Requirements (see pages 118-120)

35

Electives

8

124

*Required courses in Mathematics, Physical Science and Psychology satisfy Major requirements and 11 hours of General Education.

**See Prerequisites

***Consult advisor to satisfy state certification requirements.

MINOR IN MATHEMATICS

Semester Hours

Math 150 Calculus with Analytic Geometry I	5
Math 250 Calculus with Analytic Geometry II	5
Math electives numbered above 250	11

21

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 1701

Mathematics

Freshman Year

1st Semester

Course

Course	Hours
Math 150 Calculus I	5
Chem 101 General Chemistry I	5
Gen Ed [Eng 101 Composition]	3
Gen Ed [Literature or Fine Art]	3
Psy 120 College Orientation	1
	17

2nd Semester

Course	Hours
Math 250 Calculus II	5
Gen Ed [Eng 102 Composition]	3
Phys 250 General Physics	4
Comp 120 Computing II (or higher)	3
Gen Ed [Comm 100 Oral Communication]	3
	18

ARTS AND SCIENCES

MUSIC

Sophomore Year

1st Semester		
Math 260	Calculus III	5
Gen Ed	[Econ 201 Principles of Economics]	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[HPER 101 Intro to Physical Activities]	2
Physics or Chemistry Electives		3-5

16-18

2nd Semester

Math 300	Fundamentals of Math Thought	3
Math	Elective [322]	3
Gen Ed	[Psy 100 or Soc 110]	3
Gen Ed	[Literature or Fine Art]	3
Elective	[Economics]	3

15

Junior Year

1st Semester

**Math	Electives	6
Gen Ed	[Literature or Fine Art]	3
Chemistry or Physics		3-5
Gen Ed	[PSc 120 Gov't; U.S., State, & Local]	3

15-17

2nd Semester

**Math	Electives	6
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[HPER 160 Personal Health]	2
Electives		6

18

Senior Year

1st Semester

**Math	Electives	6
Electives		9

15

2nd Semester

**Math	Electives	6
Electives		9

15

Chem 100, Phys 100, Phys 120, Phys 140, Phys 180, Phys 300 not acceptable for any of the fifteen credit hour requirement in Chemistry or Physics.

[] Department Recommendations

For additional information contact:
Dr. J. Larry Martin
Office: 200 Reynolds Hall
Phone: Ext 240

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0833

Mathematics Major (Plan B) Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Math 150	Calculus I
Gen Ed	[Eng 101 Composition]
Psy 110	Psychology of Human Development
Gen Ed	[HPER 101 Intro to Physical Activities]
Psy 120	College Orientation

16

2nd Semester

Math 250	Calculus II	5
Chem 101*		5
OR		5
Phys 250		3
Gen Ed	[Eng 102 Composition]	3
Comp 120	Computing II (or higher)	3

5

5

3

3

3

16

Sophomore Year

1st Semester

Math 260	Calculus III	5
Chemistry*		3-5
OR		3
Physics		3
Gen Ed	[Comm 100 or 131]	3
Gen Ed	[Literature]	2
Gen Ed	[HPER 160 Personal Health]	2

5

3-5

3

3

2

16-18

2nd Semester

Math 300	Fundamentals of Math Thought	3
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Art, Music, Theatre, Philosophy]	3
Elective		3-5

3

4

3

3

3-5

16-18

Junior Year

1st Semester

Math 332		3
OR		3
Math 361		3
Math Elective**		3
Educ 300	Clinical Experience	2
Educ 330	Structures of Teaching	2
Educ 331	Micro Teaching	2
Educ 370	Instructional Media	2
Gen Ed	[Econ 180 American Economic System]	3

3

3

2

2

2

2

3

17

2nd Semester

Math Electives**		6
Gen Ed	[PSc 120 Gov't; U.S., State, & Local]	3
Psy 310	Educational Psychology	2
Psy 302	Exceptional Child	2
Gen Ed	[Literature or Fine Art]	3

6

3

2

2

3

16

Senior Year

1st Semester

Math 332		3
OR		3
Math 361		9
Math Elective**		3
Electives		15

3

3

9

15

2nd Semester

Educ 339	Math Methods	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 422	Reading in Secondary School	2
Required Elective [Educ 412, 420, 423, or Psy 412]		2
Educ 462	Student Teaching	8

2

2

2

2

2

18

*Ten hours in Physics and/or Chemistry (excluding Chem 100, Phys 100, Phys 120, Phys 140, and Phys 180) are required.

**The sequence for offering upper division mathematics will be revised in 1988-89. See departmental secretary for schedule of offerings. Electives must be approved by Math advisor.

[] Department Recommendations

For additional information contact:
Dr. J. Larry Martin
Office: 200 Reynolds Hall
Phone: Ext 240

MUSIC

FACULTY:

Havely, Head; Carnine, Elliott, Harrell, Harris, Meeks, Swansbourne, Thelen

The Department of Music offers a Bachelor of Arts degree and a Bachelor of Science in Education degree with a major in music. Each degree prepares graduates for performance, studio teaching, and/or continued study toward an advanced degree. In addition, the Bachelor of Science in Education degree prepares graduates for teaching in public education.

General Education requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 - Music Appreciation.

BACHELOR OF ARTS WITH A MAJOR IN MUSIC

Semester Hours

General Education Requirements
(see page 41) 46*

43

Computer Literacy Requirement—
determined by the Music
Department

2-3

Foreign Language (two courses in
one language)

10

Music Requirements

72

Mus 109 Sight-singing and Ear-
training

2

Mus 210 Sight-singing and Ear-
training**

2

Mus 111 Music Theory

2

Mus 112 Music Theory**

3

Mus 182 Conducting Techniques

2

Mus 211 Music Theory**

3

Mus 212 Music Theory**

3

Mus 240 Recital Attendance (8
semesters)

0

Mus 311 History of Music

3

Mus 312 History of Music

3

Mus 420 Form and Analysis**

3

Mus 431 Orchestration**

3

Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital Large Music Ensemble (8 semesters)	0
Private Study In One Area (8 semesters)	16
Applied Piano Elective (Except Keyboard Majors) (Keyboard Majors must take 8 semester hours of music electives in lieu of the applied piano elective.)	16
	8

127-128***

*Required courses in Music satisfy both major requirements and 3 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300-400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

Plan B

Single Teaching Field

Option 1

Instrumental Emphasis

Semester Hours

General Education Requirements (see page 41) 46*

Music Requirements

40
73

Mus 109 Sight-singing and Ear-training	2
Mus 210 Sight-singing and Ear-training**	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques	2
Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 231 String Techniques	1
Mus 232 Brass Techniques	1
Mus 233 Percussion Techniques (Not Open to Percussion Majors. Percussion Majors Must Substitute a Second Semester of MU 232 or 234.)	1
Mus 234 Woodwind Techniques	1
Mus 240 Recital Attendance (7 semesters)	0
Mus 311 History of Music	3
Mus 312 History of Music	3

Mus 333 Music for the Elementary Grades***	2
Mus 411 Marching Band Methods**	1

Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital Vocal/Choral Elective	0
Piano/Wind Instrument	2

(a) Instrumental Major, other than piano; two semester hours of piano study or the equivalent (Class piano may be included).

(b) Piano Major; Two semester hours of private study on a wind instrument or the equivalent.

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private Study as a Major in One Area (7 semesters) 14

Large Ensemble (7 Semesters) 14

Brass, Woodwind, of Percussion Major; the seven semesters of large ensemble must be in band.

String Major; the seven semesters of large ensemble must be in orchestra.

Education Certification Requirements (see pages 118-120) 37 150

*Required courses in Music and Psychology satisfy both major requirements and 6 hours of General Education.

**See Prerequisites

***Must be completed prior to the "Professional Semester" of supervised teaching.)

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

Plan B

Single Teaching Field

Option II

Vocal Emphasis

Semester Hours

General Education Requirements (see page 41) 46*

40

Music Requirements

74

Mus 109 Sight-singing and Ear-training	2
Mus 210 Sight-singing and Ear-training	2
Mus 111 Music Theory	3
Mus 112 Music Theory**	3
Mus 182 Conducting Techniques	2
Mus 211 Music Theory**	3
Mus 212 Music Theory**	3
Mus 240 Recital Attendance (7 semesters)	0
Mus 310 Vocal Techniques	2
Mus 311 History of Music	3
Mus 312 History of Music	3
Mus 333 Music for the Elementary Grades**	2
Mus 420 Form and Analysis**	3
Mus 431 Orchestration**	3
Mus 432 Music in the Public School***	2
Mus 444 Advanced Conducting Techniques**	2
Mus 450 Senior Recital Instrumental Elective	0
Piano/Voice	2
	6

(a) Piano Major; Six semester hours of private voice study or the equivalent (Class voice may be included)

(b) Voice Major; Six semester hours of piano study or the equivalent (two semesters of private study following the satisfactory completion of Mus 214)

The Requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of Mus 214 constitutes passing the Piano Proficiency Test.

Private Study as a Major in one area (7 semesters) 14

Concert Chorale (7 Semesters) 14

Education Certification Requirements (see pages 118-120) 37 151

*Required courses in Music and Psychology satisfy both major requirements and 6 hours of General Education.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching

ARTS AND SCIENCES

MUSIC

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN MUSIC

Plan B

Single Teaching Field

Option III

Double Certification

General Education Requirements (see page 41) 46*

Music Requirements

All of the requirements listed for Option I and Option II, either (a) or (b), with the exception of the applied major requirement

Private study as an applied major in one primary area (Seven Semesters)

Private study as an applied elective in one secondary area (four semesters) A proficiency test in the secondary major area must be passed before graduation

A Senior Recital will be required only in the primary applied area.

Education Certification Requirements (see pages 118-120)

MINOR IN MUSIC

Mus 111 Music Theory
Mus 112 Music Theory
Large Ensemble
Applied Music Elective
(Two Semesters)
Music Electives*

*Must be made with prior approval of music advisor.

Suggested Orders of Study

BACHELOR OF ARTS Major Code 1005 Music Major

Freshman Year

1st Semester
Course
Mus 111 Music Theory
Mus 207 Applied Music Major
Mus 240 Recital Attendance
Applied Piano Elective/Music Elective
Large Ensemble
Gen Ed [Eng 101 Composition]

Gen Ed [Econ 180 American Economic System] 3
Psy 120 College Orientation 1
15-16
2nd Semester
Mus 112 Music Theory 3
Mus 109 Sight Singing & Ear Training 2
Mus 208 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Applied Piano Elective/Music Elective 2
Large Ensemble 3
Gen Ed [Eng 102 Composition] 3
Gen Ed [Math 110 Intro to College Math] 3
16-17

Sophomore Year

1st Semester
Mus 211 Music Theory 3
Mus 210 Sight Singing & Ear Training 2
Mus 207 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Applied Piano Elective/Music Elective 2
Large Ensemble 2
Gen Ed [HPER 101 P.E. Activity] 5
Psy 110 Human Growth and Development 5
17-18

2nd Semester

Mus 212 Music Theory 3
Mus 208 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Applied Piano Elective/Music Elective 2
Large Ensemble 3
Gen Ed [Hist 110 or 120 U.S. History] 4
Gen Ed [Bio 101 General Biology] 4
15-16

Junior Year

1st Semester
Mus 182 Conducting Techniques 2
Mus 420 Form & Analysis 3
Mus 407 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Applied Piano Elective/Music Elective 2
Large Ensemble 3
Gen Ed [Comm 100 Oral Communication] 5
Gen Ed [Foreign Language] 5
18-19

2nd Semester

Mus 444 Advanced Conducting 2
Mus 408 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Mus 431 Orchestration 3
Applied Piano Elective/Music Elective 2
Large Ensemble 3
Gen Ed [Literature or Theatre] 5
Gen Ed [Foreign Language] 5
18-19

Senior Year

1st Semester
Mus 311 History of Music 3
Mus 407 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Applied Piano Elective/Music Elective 2
Large Ensemble 5
Gen Ed [Phys 100 Fund of Physical Science] 3
Gen Ed [Literature] 3
16-17

2nd Semester
Mus 312 History of Music 3
Mus 408 Applied Music Major 2
Mus 240 Recital Attendance 1-2
Mus 450 Senior Recital 2
Large Ensemble 3
Gen Ed [PSc 120 Gov't; U.S., State, & Local] 3
Educ 401 Use of Computer Software in Classroom (Or computer course approved by Music Dept.) 2
13-14

[] Dept. Recommendation

For additional information contact:
Mr. Pete Havely
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION Major Code 0832 Music Major (Plan B) Single Teaching Field

Piano Major With Vocal Emphasis

Freshman Year

1st Semester
Course
Mus 111 Music Theory 3
Mus 207 Applied Music-Major Piano 2
Mus 105 Applied Music-Voice 1 Mus 121 Choir 2
Mus 240 Recital Attendance 1-2
Gen Ed [Eng 101 Composition] 3
Gen Ed [Econ 180 American Economic System] 3
Psy 120 College Orientation 1
Instrumental Elective 1-2
16-17

2nd Semester

Mus 112 Music Theory 3
Mus 109 Sight-singing & Ear-training 2
Mus 208 Applied Music Major Piano 2
Mus 106 Applied Music Voice 1
Mus 121 Choir 2
Mus 240 Recital Attendance 1-2
Gen Ed [Eng 102 Composition] 3
Gen Ed [HPER 160 Personal Health] 3
Gen Ed [Math 110 Intro College Math] 1-2
Instrumental Elective 19-20

Sophomore Year

1st Semester
Mus 310 Vocal Techniques 2
Mus 211 Music Theory 3
Mus 210 Sight-singing & Ear-training 2
Mus 207 Applied Music Major Piano 1
Mus 105 Applied Music Voice 2
Mus 121 Choir 2
Mus 240 Recital Attendance 1-2
Gen Ed [HPER 101 Intro P.E. Activity] 5
Psy 110 Human Growth & Development 19

2nd Semester

Mus 212 Music Theory 3
Mus 208 Applied Music Major Piano 2
Mus 106 Applied Music Voice 1
Mus 121 Choir 2

Mus 240 Recital Attendance
Gen Ed [Hist 110 or 120 U.S. History]
Gen Ed [Comm 100 Oral Communication]
Gen Ed [Bio 101 General Biology]

Junior Year

1st Semester
Mus 182 Conducting
Mus 311 History of Music
Mus 420 Form & Analysis
Mus 407 Applied Music Major Piano
Mus 305 Applied Music Voice
Mus 321 Choir
Mus 240 Recital Attendance
Educ 300 Clinical Experiences
Educ 330 Structures of Teaching Secondary
Educ 331 Microteaching
Educ 370 Instructional Media

2nd Semester

Mus 444 Advanced Conducting
Mus 312 History of Music
Mus 408 Applied Music Major
Mus 306 Applied Music Voice
Mus 321 Choir
Mus 240 Recital Attendance
Mus 333 Music in Elementary Grades
Mus 431 Orchestration
Educ 302 Exceptional Child
Gen Ed [PSC 120 Gov't; U.S., State & Local]
Gen Ed [Literature or Theatre]

Senior Year

1st Semester
Mus 421 Choir
Mus 432 Music in Public Schools
Mus 408 Applied Music Major
Mus 450 Senior Recital
Mus 240 Recital Attendance
Psy 310 Educational Psychology
Educ 302 Exceptional Child
Gen Ed [Phys 100 Fund of Physical Science]
Educ 401 Use of Computer Software in Classroom (Or computer course approved by Music Dept)
Educ 422 Teaching Reading in Secondary Schools
Gen Ed [Literature]

2nd Semester

Mus 335 Teaching Music in Secondary School
Educ 402 Foundations of Education
Educ 432 Critical Issues in Education
Educ 420 Introduction to Counseling
OR
Psy 412 Measurement & Evaluation in Education
Educ 464 Student Teaching

[] Dept. Recommendation

For additional information contact:
Mr. Pete Havelly
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION Major Code 0832 Music Major (Plan B) Single Teaching Field

Piano Major With Instrumental Emphasis

Freshman Year

1st Semester
Course
Mus 111 Music Theory
Mus 233 or 231 Percussion/String Techniques
Mus 207 Applied Music Major Piano
Mus 191 Band
Mus 240 Recital Attendance
Gen Ed [Eng 101 Composition]
Gen Ed [Econ 180 American Economic System]
Psy 120 College Orientation

2nd Semester

Mus 232 or Mus 234 Brass/Woodwind Techniques
Mus 109 Sight-Singing & Ear-Training
Mus 208 Applied Music Major Piano
Mus 192 Band
Mus 240 Recital Attendance
Gen Ed [Eng 102 Composition]
Gen Ed [HPER 160 Personal Health]
Gen Ed [Math 110 Intro to College Math]

Sophomore Year

1st Semester
Mus 233 or Mus 231 Percussion/String Techniques
Mus 121 or Mus 310 Choir or Vocal Techniques
Mus 211 Music Theory
Mus 210 Sight-singing & Ear-training
Mus 207 Applied Music Major Piano
Mus 240 Recital Attendance
Gen Ed [HPER 101 P. E. Activity]
Psy 110 Human Growth & Development

2nd Semester

Mus 232 or Mus 234 Brass/Woodwind Techniques
Mus 212 Music Theory
Mus 208 Applied Music Major Piano
Mus 292 Band
Mus 240 Recital Attendance
Gen Ed [Hist 110 or 120 U. S. History]
Gen Ed [Bio 101 General Biology]
Gen Ed [Comm 100 Oral Communication]

Junior Year

1st Semester
Mus 182 Conducting Techniques
Mus 305 Applied Music Woodwind/Brass
Mus 311 History of Music
Mus 420 Form & Analysis
Mus 407 Applied Music Major Piano
Mus 391 Band
Mus 240 Recital Attendance
Educ 300 Clinical Experiences
Educ 330 Structure of Teaching Secondary
Educ 331 Microteaching
Educ 370 Instructional Media

2nd Semester

Mus 444 Advanced Conducting
Mus 306 Applied Music Woodwind/Brass
Mus 312 History of Music
Mus 408 Applied Music Major
Mus 392 Band
Mus 240 Recital Attendance
Mus 333 Music in Elementary Grades
Mus 431 Orchestration
Educ 302 Exceptional Child
Gen Ed [PSC 120 Gov't; U.S., State, & Local]
Gen Ed [Literature or Theatre]

Senior

1st Semester

Mus 411 Marching Band Methods
Mus 491 Band
Mus 432 Music in Public School
Mus 408 Applied Music Major Piano
Mus 450 Senior Recital
Mus 240 Recital Attendance
Psy 310 Educational Psychology
Educ 302 Exceptional Child
Gen Ed [Phys 100 Fund of Physical Science]
Educ 401 Use of Computer Software in Classroom (Or computer course approved by Music Dept.)
Educ 422 Reading
Gen Ed [Literature]

2nd Semester

Mus 335 Teaching Music in Secondary School
Educ 402 Foundations of Education
Educ 432 Critical Issues in Education
Educ 420 Intro to Counseling
OR
Psy 412 Measurement & Evaluation in Education
Educ 464 Student Teaching

[] Dept. Recommendation

For additional information contact:
Mr. Pete Havelly
Office: 216 Music Building
Phone: Ext. 282

BACHELOR OF SCIENCE IN EDUCATION Major Code 0832 Music Major (Plan B) Single Teaching Field

Vocal Major

Freshman

1st Semester

Instrumental Elective
Mus 111 Music Theory
Mus 207 Applied Music Voice
Mus 113 Class Piano
Mus 121 Choir
Mus 240 Recital Attendance
Gen Ed [Eng 101 Composition]
Gen Ed [Econ 180 American Economic System]
Psy 120 Freshmen Orientation

2nd Semester

Mus 112 Music Theory
Instrumental Elective

MUSIC

72

PARALEGAL STUDIES

FACULTY:

Conboy, Head; Yates

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal assistance. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, pre-law, business law, and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

At the present time there is no major offered in paralegal studies. However, a student enrolled in the paralegal program may obtain an Associate of Arts degree with an emphasis in paralegal studies. Paralegal Studies may be used as a minor. Students must have an advisor in Paralegal Studies.

MINOR IN PARALEGAL STUDIES

	Semester	Hours
PLS 201	Introduction to Legal Assistance	3
PLS 302	Legal Research	3
Electives from the following:		15
PLS 298	Topics in Paralegal Studies	3
PLS 311	Property	3
PLS 312	Civil Litigation*	3
PLS 320	Family Law	3
PLS 401	Wills, Trusts and Probate	3
GB 301	Business Law I	3
GB 302	Business Law II**	3
PSc 431	Constitutional Law I	3
PSc 432	Constitutional Law II	3
PLS 491	Internship**	3
PLS 498	Senior Seminar**	3
PLS 499	Independent Study**	3
COMM 310	Communications Law*	
OR		
LE 250	Criminal Law	
OR		
PSc 322	International Law	
OR		
GB 411	Labor Law	3

*Highly recommended.

** See Prerequisites

Suggested Order of Study

ASSOCIATE OF ARTS

Major Code 7999

Emphasis in Paralegal Studies

(This is a general Associate of Arts degree, NOT a Paralegal Degree)

Freshman Year

1st Semester		
Course		Hours
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[PSc 120 Gov't; U.S., State, & Local]	3
Psy 120	College Orientation	1
Gen Ed	[HPER 101 Physical Activities]	2

2nd Semester

Gen Ed	[Eng 102 Composition]	3
Gen Ed	[Hist 110 or 120 U.S. History]	3
Gen Ed	[Math 110 Intro to College Math]	3
PLS	Upper Division Electives	6
		15

Sophomore Year

1st Semester		
Gen Ed	[Econ 180 American Economic System]	3
Gen Ed	[Science]	4-5
Gen Ed	[Humanities and Fine Arts]	3
PLS	Upper Division Electives	6
		16-17

2nd Semester

Gen Ed	[Comm 100 Oral Communication]	3
Gen Ed	[Literature]	3
PLS 491	Internship	3
PLS 498	Senior Seminar	3
PLS	Upper-Division Elective	3
		15

[] Dept. Recommendation.

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

For additional information contact:

Dr. Michael Yates
Office: 202 Mansion
Phone: Ext. 453

PHILOSOPHY

FACULTY:

Lambert, Head; Harder

Philosophy offers courses which students may take to fulfill college Humanities and Fine Arts General Education requirements or take as free electives. Philosophy educates the student about the intellectual issues which a reflective person is likely to encounter in the various contexts of civilized life, issues which arise for the individual simply by virtue of being human.

Students are expected to approach philosophy with intellectual curiosity and a desire to expand their horizons.

PHYSICS

FACULTY:

Baiamonte, Head; Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government, secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty advisor, select their free electives in the area they plan to enter.

The physics area of the Physical Science Department participates in cooperative two year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern State College and then transfer to an engineering school to complete the remaining two years of the degree. (See page 144)

General Education requirements can be met with Phys 100 or any 5 semester hour course in Physics.

BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICS

	Semester	Hours
General Education Requirements (see page 41) 46*		38
Physics Requirements		36

Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4
Phys 381	Intermediate Physics Laboratory**	3
Phys 401	Electricity and Magnetism**	4
Phys 452	Quantum Mechanics**	3
OR		
Phys 480	Selected Topics in Physics & Engineering	3
Phys 498	Seminar	1

ARTS AND SCIENCES

PHYSICS

Supporting Requirements

Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Math 322	Differential Equations**	3
Comp 120	Computing II	3
Electives***		3

29
124****

*Required Physics and Mathematics courses satisfy Major requirements and 8 hours of General Education.

**See Prerequisites

***Suggested Electives (Chem 101, Chem 102, Comp 200, Math 351, Math 431, and Phys 480)

****Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICS

Plan A

One of Two Teaching Fields

General Education Requirements (see page 41) 46*

Physics Requirements

Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 381	Intermediate Physics Laboratory**	3
Phys 498	Seminar	2

Supporting Requirements

Chem 101	General Chemistry I**	5
Bio 110	Man and Environment	4
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Comp 120	Computing II	3

Education Certification Requirements (see pages 118-120) 35

Second Teaching Field

(some fields exceed 30 hours) 30
145****

21 *Required Physics, Mathematics, Biology, and Psychology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites

***Varies with 2nd field

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICS

Plan B

Single Teaching Field

General Education Requirements (see page 41) 46* 31

Physics Requirements 26

Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 381	Intermediate Physics Laboratory**	3
Phys 498	Seminar	2
Physics	Upper Division	
Electives		4

Supporting Requirements 27

Chem 101	General Chemistry I**	5
Bio 110	Man and Environment	4
Math 150	Calculus with Analytical Geometry I**	5
Math 250	Calculus with Analytical Geometry II**	5
Math 260	Calculus with Analytical Geometry III**	5
Comp 120	Computing II	3

Education Certification Requirements (see pages 118-120) 35

Electives*** 5 124

*Required Physics, Mathematics, Biology, and Psychology courses satisfy Major requirements and 15 hours of General Education.

**See Prerequisites

***Suggested Electives (Chem 102, Phys 372, and Geol 110)

MINOR IN PHYSICS

	Semester Hours
Phys 250 General Physics I	5
Phys 260 General Physics II	5
Physics Upper Division Electives (Excluding Phys 300)	8
	18

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 1902

Physics Major

Freshman Year

1st Semester	Course	Hours
Math 150	Calculus I	5
Elective	[Chem 101 Gen Chem I] (Alg & Trig)	5
Gen Ed	[Eng 101 Composition]	3
Comp 120	Computing II	3
Psy 120	College Orientation	1
		17

2nd Semester

Phys 250	Gen Physics I (Math 150)	5
Math 250	Calculus II (Math 150)	5
Elective	[Chem 102 Gen Chem II]	5
Gen Ed	[Eng 102 Composition]	3
		18

Sophomore Year

1st Semester	Course	Hours
Phys 260	Gen Physics II (Phys 250)	5
Math 260	Calculus III (Math 250)	5
Gen Ed	[PSc 120 Gov't; U.S., State & Local]	3
Gen Ed	[HPER 101 Physical Activities]	2
Gen Ed	[Hist 110 or 120 U. S. History]	3
		18

2nd Semester

Phys 322	Classical Mechanics	
OR		
Phys 341	Thermal Physics	3-4
Phys 372	Electronic Circuits	4
Math 322	Differential Equations	3
Gen Ed	[HPER 160 Personal Health]	2
Gen Ed	[Econ 180 American Economic System]	3
		15-16

Junior Year

1st Semester	Course	Hours
Phys 301	Modern Physics	4
Phys 381	Intermediate Physics Lab	
OR		
Phys 401	Electricity & Magnetism	3-4
Gen Ed	[Bio 101 General Biology]	4
Gen Ed	[Literature]	3
		14-15

ARTS AND SCIENCES

POLITICAL SCIENCE

1987-89
Catalog

2nd Semester
Phys 341 Thermal Physics
OR
Phys 322 Classical Mechanics
Phys 452 Quantum Mechanics
OR
Phys 480 or Elective
Math Elective
Gen Ed [Communications]
Gen Ed [Humanities & Fine Arts]

Senior Year

1st Semester
Phys 401 Electricity & Magnetism
OR
Phys 381 Intermediate Physics Lab
Gen Ed [Humanities & Fine Arts]
Gen Ed [Behavioral & Social Science]
Phys or Math Elective
Electives

2nd Semester
Phys 452 Quantum Mechanics
OR
Phys 480 or Elective
Phys 498 Seminar
Electives

() Prerequisite
[] Department Recommendation

Students should enroll in Comp 120 Computing II before the Junior Year.

For additional information contact:
Dr. Russell Phillips
Office: 226 Reynolds Hall
Phone: Ext 241 or 292

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0848
Physics Major (Plan B)
Single Teaching Field

Freshman Year

1st Semester
Course
Elective [Chem 101 Gen Chem]
Math 150 Calculus I
Gen Ed [Eng 101 Composition]
Comp 120 Computing II
Psy 120 College Orientation

2nd Semester

Elective [Chem 102 Gen Chem II] (Chem 101) 5
Math 250 Calculus II (Math 150) 5
Gen Ed [Eng 102 Composition] 3
Phys 250 Gen Physics I (Math 150) 5

Sophomore Year

1st Semester
Math 260 Calculus III (Math 250) 5
Phys 260 Gen Physics II (Phys 250) 5
Psy 110 Psychology of Human Development 5
Gen Ed [HPER 101 Physical Activities] 2

2nd Semester
Phys 322 Classical Mechanics
OR
3-4 Physics Elective
Elective [Math 322 Differential Equations] (Math 260) 3
3 Educ 302 The Exceptional Child 2
3 Psy 310 Educational Psychology (Psy 110) 2
3 Gen Ed [Hist 110 or 120 U. S. History] 3
3 Gen Ed [Communications] 3

15-16

Junior Year

1st Semester
Phys 301 Modern Physics 4
Phys 381 Intermediate Physics Lab
OR
3-4 Physics Elective 3-4
3 Educ 300 Clinical Experience 2
3 Educ 330 Structure of Teaching/Secondary 2
3 Educ 331 Microteaching 2
15-16 Educ 370 Introduction to Instructional Media 2
Gen Ed [HPER 160 Personal Health] 2

16-17

2nd Semester
3 Phys 322 Classical Mechanics 3-4
1 OR 3
12 Phys 373 Electronic Circuits 3-4
16 Gen Ed [Literature] 3
Gen Ed [Humanities & Fine Arts] 3
Bio 110 Man and Environment 4
Gen Ed [PSc 120 Gov't; U.S., State, & Local] 3

16-17

Senior Year

1st Semester
Phys 381 Intermediate Physics Lab
OR
Physics Elective 3-4
Phys 498 Seminar 2
Gen Ed [Econ 180 American Economic System] 3
Gen Ed [Humanities & Fine Arts] 3
Free Electives 6

17-18

2nd Semester

Hours
Educ 333 Teaching Science in Secondary Schools 2
Educ 402 Foundations of Education 2
Educ 422 Reading in the Secondary School 2
Educ 432 Critical Issues 2
Educ 462 Student Teaching Secondary 8
Required Elective Educ 412, 420, 423, or Psy 412 2

18

() Prerequisites
[] Department Recommendation

For additional information contact:
Dr. Russell Phillips
Office: 226 Reynolds Hall
Phone: Ext 241 or 292

POLITICAL SCIENCE

FACULTY:

Conboy, Head; St. Clair, Yates, Youst
Among other career options, the Bachelor of Arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service, work in community service, and, in some instances, teach in secondary schools. A minor in Political Science is available for students majoring in other disciplines. In addition, see page 77 for a Social Sciences minor or the Social Studies in Secondary Education minor.

General Education requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE

Semester Hours

General Education Requirements
(see page 41) 46* 51 40 43

Computer Literacy Requirement—
determined by the Social
Sciences Department 2-3

Foreign Language (two courses
in one language) 10

Political Science Requirements 30 36
PSc 120 Gov't; U.S., State &
Local 3

PSc Electives** chosen with
approval of Political Sciences
advisor 27 33

Electives 38- 40 43
39 34 38
124*** 128

*Political Science 120 satisfies Major requirements and 3 hours of General Education.

**Must include at least 40 upper division (300-400 level) hours.

ARTS AND SCIENCES

POLITICAL SCIENCE

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

Political Science Emphasis
Plan B Single Teaching Field

Semester Hours

General Education Requirements

(see page 41) 46*

Political Science Requirements

PSc 120 Government; U.S., State, & Local 3

Upper-Division Political Science Courses 12

Supporting Requirements

Hist 110 United States History 1492-1877 3

Hist 120 United States History 1877-Present 3

Hist 130 Western Civilization to 1660 3

Hist 140 Western Civilization Since 1660 3

Upper Division United States History** 6

Upper Division European or Oriental History** 3

Soc 110 Introduction to Sociology 3

Upper Division Sociology Elective** 3

Geog 211 Regions and Nations 3

Upper Division Geography Elective 3

Econ 201 Principles of Economics (Macro) or other Economics Course 3

Elective Education Certification Requirements (see pages 118-120) 2

37
124

*Required Political Science, History, Sociology and Economics courses satisfy Major requirements and 12 hours of General Education.

**See Prerequisites

MINOR IN POLITICAL SCIENCE

Semester Hours

PSc 120 Government; U.S., State, & Local 3

PSc Electives* 18

21

*Must be chosen with approval of a Political Science Advisor.

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2201

Political Science Major

Freshman Year

Course	Hours
Gen Ed [PSc 120 Gov't; U.S., State & Local]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 or Hist 120 U.S. History]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [HPER 101 P.E. Activity]	2
Psy 120 College Orientation	1

2nd Semester

Gen Ed [Econ 180 or 201 Economics]	3
Gen Ed [Eng 102 Composition]	3
Comm 100 Oral Communication	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Humanities and Fine Arts]	3

Sophomore Year

Course	Hours
1st Semester	
Gen Ed [Literature]	3
Foreign Language	5
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [HPER 160 Personal Health]	2

2nd Semester

PSc [Upper Division Elective Approved by Advisor]	3
Foreign Language	5
Gen Ed [Social Sciences Elective]	3
Electives	6

Junior Year

Course	Hours
1st Semester	
PSc [Upper Division]	6
Electives	3
[Computer Literacy course selected with advisor's approval]	3
Gen Ed [Humanities and Fine Arts]	3

2nd Semester

PSc [Upper Division]	6
Electives	9

Senior Year

Course	Hours
1st Semester	
PSc [Upper Division Electives]	6
Electives [Upper Division]	9

2nd Semester

PSc [Upper Division Elective]	6
Electives [Upper Division]	10

[] Dept. Recommendation.

For additional information contact:
Dr. Donald R. Youst
Office: 113 Mansion
Phone: Ext. 288 589

BACHELOR OF ARTS OR SCIENCE

Major Code 7008

Pre-Law

Freshman Year

Course	Hours
1st Semester	
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 U.S. History]	3
Gen Ed [Comm 100 Oral Communication]	3
Gen Ed [Soc 110 Sociology]	3
Gen Ed [HPER 101 Physical Activities]	2
Psy 120 College Orientation	1

2nd Semester

Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 131 Finite Math]	3
Gen Ed [Bio 101 General Biology]	4
Gen Ed [Literature]	3
Gen Ed [HPER 160 Personal Health]	2

Sophomore Year

Course	Hours
1st Semester	
Gen Ed [Literature]	3
Gen Ed [Phil 201 Intro to Philosophy]	3
Gen Ed [PSC 120 Gov't; U.S., State & Local]	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Acct 201 Principles of Accounting I	1

2nd Semester

Psy 100 General Psychology	3
Acct 202 Principles of Accounting II	3
Eng 315 Exposition	3
Comp 105 Intro to Microcomputer Use	3
Gen Ed [Econ 201 Macro Economics]	3

Junior Year

1st and 2nd Semester*

Senior Year

1st and 2nd Semester*

*Curriculum should be planned with the pre-law advisor. Major may be selected within almost any academic discipline emphasizing academic skills which will enable the student to perform well on the law School Admission Test and in the rigorous studies in law school. Major will be determined by the student's interests and the type of law in which the student plans to specialize.

For additional information contact:

Mrs. Annetta St. Clair
Office: 206 Mansion
Phone: Ext. 247

*Bachelor of Science in Education
Major Code 0843
Social Studies Major
Political Science Emphasis
Transfer from 78*

SOCIAL SCIENCES

FACULTY:

Conboy, Head; Gubera, Holman, Markman, Miller, Renner, St. Clair, Smith, Tate, Teverow, Yates, Youst

Within the Social Sciences are the disciplines of Geography, History, Paralegal Studies, Political Science and Sociology. Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the Social Sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and human services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social Sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a Social Work Minor, a Paralegal Studies Minor or a Sociology Major. *Missouri State*

To satisfy the college-wide computer literacy requirements, the Social Sciences faculty suggests students complete Comp 105 Intro to Microcomputer Use.

Minors are offered in each of the disciplines within the Social Sciences. Two general Social Sciences minors are also available: Social Sciences Minor and Bachelor of Science in Education with a Social Studies Minor (students qualifying to teach in junior high and middle school).

MINOR IN SOCIAL SCIENCES

Option I

	Semester Hours
Hist 110 or 120 U.S. History*	3 6
PSc 120 Gov't; U.S., State, & Local*	3
Geography Elective	3
Sociology Elective (100-200 level)	3
Select four (4) Social Sciences courses at the 300-400 level	12
<i>three (3) (other than Hist 320)</i>	24

*Required of all students for General Education.

MINOR IN SOCIAL SCIENCES

Option II

	Semester Hours
Hist 110 or 120 U.S. History*	3 6
PSc 120 Gov't; U.S., State, & Local*	3
Geography Elective (100-200 level)	3
Sociology Elective (100-200 level)	3
Select six (6) hours at the 300-400 level from each of two of the following: Geography, History, Political Science or Sociology	12
	24

*Required of all students for General Education.

MINOR IN SOCIAL STUDIES FOR SECONDARY EDUCATION

A Social Studies minor certifies secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty advisor.

	Semester Hours
Hist 110 or Hist 120, United States History	3 6
PSc 120 Gov't; U.S., State, & Local	3
Additional hours from the following:	15 18
Hist 110 or Hist 120, United States History	3
Hist 130 or Hist 140, Western Civilization	3
Econ 201 Principles of Economics or other Economic course	3
Geog 211 Regions and Nations	3
Upper Division United States History Elective (other than 320)	3
Upper Division European or Oriental History Elective	3
	24

Suggested Orders of Study

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0843

Social Studies Major

Sociology Emphasis

Freshman Year

1st Semester

Course	Hours
Gen Ed [Soc 110 Intro to Sociology]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 or 120, U. S. History]	3
Gen Ed [Econ 201 (Macro) or other Econ course]	3
Gen Ed [HPER 101 P. E. Activity]	2
Psy 120 College Orientation	1
	15

2nd Semester

Soc 121 Marriage and the Family	3
Gen Ed [Eng 102 Composition]	3
Hist 120 U. S. History 1877-Present or Hist 110	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [PSc 120 Gov't: U.S., State & Local]	3
Gen Ed [HPER 160 Personal Health]	2
	17

Sophomore Year

1st Semester

Geog 211 Regions and Nations	3
Soc 210 Social Problems	3
Hist 130 Western Civilization to 1660	3
Gen Ed [Humanities and Fine Arts]	3
Psy 110 Psychology of Human Development	5
	17

2nd Semester

Soc Elective	3
Hist 140 Western Civilization 1660 to Present	3
Gen Ed [Bio 101 General Biology] or Bio 110 or 121	4
Gen Ed [Literature]	3
Psy 302 Exceptional Child	2
	15

Junior Year

1st Semester

Soc 342 Comparative Cultures	3
Geog Upper Division Elective	3
Hist Upper Division European or Oriental	3
Psy 310 Educational Psychology	2
Soc Upper Division Elective	3
PSc Upper Division Elective	3
	17

2nd Semester

Gen Ed [Phys 100 Fund of Physical Science]	5
Soc Upper Division Elective	3
Educ 300 Clinical Experiences	2
Educ 330 Structure of Teaching	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
	16

Senior Year

1st Semester

Hist Upper Division U. S. History	6
Gen Ed [Humanities and Fine Arts]	3
Gen Ed [Comm 131 Voice and Articulation] or Comm 100 or 103	3
Educ 401 Use of Computer Software in Classroom	2
Educ 422 Reading in Secondary School	2
	16

ARTS AND SCIENCES

SOCIOLOGY

2nd Semester
Professional Semester 16
(See Page for specific Education Department Requirements)

[] Department Recommendation

For additional information contact
Dr. Gail Renner Office: 114 Mansion
Phone: Ext. 287

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0843

Social Studies Major (Plan B) Single Teaching Field

Political Science Emphasis

Freshman Year

1st Semester

Course	Hours
Gen Ed [PSc 120 Gov't; U.S., State & Local]	3
Gen Ed [Eng 101 Composition]	3
Psy 110 Psychology of Human Development	5
Gen Ed [Literature]	3
Psy 120 College Orientation	1
	15

2nd Semester

Gen Ed [Hist 110 U. S. History 1492-1877]	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Econ 201 (Macro) or other Econ course]	3
Gen Ed [Bio 101 General Biology] or Bio 110 or 121	4
	16

Sophomore Year

1st Semester

Hist 120 U. S. History 1877-Present	3
Geog 211 Regions and Nations	3
Hist 130 Western Civilization to 1660	3
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [HPER 101 P. E. Activity]	2
	16

2nd Semester

Hist 140 Western Civilization Since 1660	3
Gen Ed [Humanities and Fine Arts]	3
Gen Ed [Soc 110 Intro to Sociology]	3
Psy 302 Exceptional Child	2
Psy 310 Educational Psychology	2
Gen Ed [HPER 160 Personal Health]	2
	15

Junior Year

1st Semester

PSc Upper Division Elective	3
Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching	2
Educ 331 Microteaching	2
Educ 370 Instructional Media	2
Educ 401 Use of Computer Software in Classroom	2
Geog Upper Division Elective	3
	16

2nd Semester

Hist Upper Division U. S. History	3
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Hist Upper Division European or Oriental History	3
PSc Upper Division Elective	3
Gen Ed [Humanities and Fine Arts]	3
Elective	3
	15

Senior Year

1st Semester

PSc Upper Division Electives	6
Soc Upper Division Elective	3
Hist Upper Division U.S. History	3
Gen Ed [Comm 131 Voice and Articulation] or Comm 100 or 103	3
Educ 422 Reading in the Secondary School	2
	17

2nd Semester

Professional Semester

(See Page 119 for specific Education Department requirements)

[] Dept. Recommendation.

For additional information contact:

Mrs. Annetta St. Clair
Office: 206 Mansion
Phone: Ext. 247

SOCIOLOGY

FACULTY:

Conboy, Head; Gubera, Miller, Tate

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs.

Selecting from three bachelor's degree programs including a Bachelor of Science in Education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A Sociology minor with an emphasis in Social Work is offered with classes focusing on human and social services. In addition, a Sociology minor provides students majoring in other areas with special inter-personal, group and organizational knowledge and skills.

See page 77 for a minor in Social Sciences or the Social Studies in Secondary Education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Sociology 110 is an elective course which satisfies 3 credit hours of the General Education requirements for Behavioral and Social Sciences. *Natural and Behavioral Sciences*

BACHELOR OF ARTS WITH A MAJOR IN SOCIOLOGY

General Education Requirements (see page 41) 46* 43

Computer Literacy Requirement—determined by the Sociology Department 2-3

Foreign Language (two courses in one language) 10 30

Sociology Requirements

Soc 110 Introduction to Sociology	3
Soc 210 Social Problems**	3
Soc 311 Social Class and Inequality**	3
Soc 342 Comparative Cultures**	3
Soc 421 Sociological Theory**	3
Soc 432 Sociological Research Methods**	3

Sociology Electives (3 upper division) 12

Psy 311 Applied Statistics**

OR
Math 310 Elementary Statistics** 3

Supporting Area (approved by Sociology advisor)*** 15

Electives 20-21

*Required Sociology course satisfies Major requirements and 3 hours of General Education.

**See Prerequisites

***A minor is highly recommended.

****Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE WITH A MAJOR IN SOCIOLOGY

General Education Requirements (see page 41) 46* 43 36

Sociology Requirements

Soc 110 Introduction to Sociology	3
Soc 152 Introduction to Anthropology	3
Soc 311 Social Class and Inequality**	3
Soc 362 Deviant Behavior**	3
Soc 421 Sociological Theory**	3
Soc 432 Social Research Methods**	3

Electives in Sociology
(Emphasis in Upper Division) 18

Supporting Requirements

Comp 105 Intro to Microcomputer Use 3
Soc 300 Computer Applications for the Soc Sci 3
Psy 320 Applied Statistics for the Behavioral and Natural Sciences**

OR

Math 310 Elementary Statistics** 3
Geography Elective 3
Electives 33

124***

*Required course in Sociology satisfies Major requirements and 3 hours of General Education.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN SOCIAL STUDIES

Sociology Emphasis Plan B

Single Teaching Field

Semester Hours

General Education Requirements (see page 41) 46*

34**Sociology Requirements****21**

Soc 110 Introduction to Sociology OR
Soc 152 Introduction to Anthropology 3
Soc 121 Sociology of Family 3
Soc 210 Social Problems** 3
Soc 342 Comparative Cultures** 3
Sociology Electives (6 hours upper division)** 9

Supporting Requirements**36**

Hist 110 U. S. History 1492-1877 3
Hist 120 U. S. History 1877-Present or Hist 320 3
Hist 130 Western Civilization To 1660 3
Hist 140 Western Civilization From 1660 3

Upper Division U. S. History Electives** 6
Upper Division European or Oriental History Elective** 3
Geog 211 Regions and Nations 3
Upper Division Geography Elective 3
PSc 120 Gov't; U.S., State & Local 3
Upper Division Political Science Elective** 3
Econ 201 Principles of Economics or other Economics course 3

Education Certification Requirements (see pages 118-120)

**37
128**

*Required courses in History, Political Science, Sociology and Economics satisfy Major requirements and 12 hours of General Education.

**See Prerequisites

MINOR IN SOCIOLOGY

Semester Hours

Soc 110 Introduction to Sociology 3
Sociology Electives* 6
Sociology Electives-Upper Division* 12 2

21

*Select with prior approval of a Sociology advisor. See prerequisites where applicable.

MINOR IN SOCIOLOGY WITH EMPHASIS IN SOCIAL WORK

Semester Hours

Soc 110 Introduction to Sociology 3
Soc 121 Sociology of Family 3
Soc 210 Social Problems* 3
Soc 306 Sociology of Aging* 3
Soc 331 Introduction to Social Work I** 3
Soc 332 Introduction to Social Work II** 3
Soc 496 Internship** 3

21

*See Prerequisites

** Admission dependent on departmental committee approval

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2008

Sociology Major**Freshman Year**

1st Semester

Course	Hours
Gen Ed [Soc 110 Intro to Sociology]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 or Hist 120 U. S. History]	3
Gen Ed [Humanities and Fine Arts]	3
Soc Elective	3
Psy 120 College Orientation	1
Total	16

2nd Semester

Soc 121 [Marriage and the Family]	3
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [Econ 180 or 201 Economics]	3
Gen Ed [Bio 121 General Zoology]	4
Total	16

Sophomore Year

1st Semester

Soc 210 Social Problems*	3
Foreign Language	5
Gen Ed [Humanities and Fine Arts]	3
Gen Ed [Math 110 Intro to College Math]	3
Gen Ed [Comm 100 Oral Communication]	3
Total	17

2nd Semester

Elective	3
Foreign Language	5
Gen Ed [Phys 100 Fund of Physical Science]	5
Gen Ed [HPER 101 P. E. Activity]	2
Total	15

Junior Year

1st Semester

Soc 311 Social Class and Inequality*	3
Soc 342 Comparative Cultures*	3
Gen Ed [Literature]	3
Psy 320 Applied Statistics* (Psy 311 or Math 310)	3
Gen Ed [HPER 160 Personal Health]	2
Total	14

2nd Semester

Supporting Area [A minor is suggested]	6
Comp 105 [Computing I]	3
Electives	7
Total	16

Senior Year

1st Semester

Soc 421 Sociological Theory*	3
Soc [Upper Division Elective]	3
Supporting Area [A minor is suggested]	6
Elective	3
Total	15

2nd Semester

Soc 432 Research Methods*	3
Supporting Area [A minor is suggested]	6
Electives	6
Total	15

ARTS AND SCIENCES

THEATRE

*Prerequisites
[] Dept. Recommendation.

The student is to select a supporting area in consultation with a Sociology advisor.

For additional information contact:
Dr. Conrad Gubera
Office: 201 Mansion
Phone: Ext. 453
Or
Dr. Judith Conboy
Office: 117 Mansion
Phone: Ext. 265

Suggested Orders of Study

BACHELOR OF SCIENCE

Major Code 2220

Sociology Major

Freshman Year

1st Semester		Hours
Course		
Gen Ed	[Soc 110 Intro to Sociology]	3
Gen Ed	[Eng 101 Composition]	3
Gen Ed	[Hist 110 or 120 U. S. History]	3
Gen Ed	[Econ 180 or 201 Economics]	3
Elective		3
Psy 120	College Orientation	1
		16

2nd Semester

Soc 152	Anthropology	3
Gen Ed	[Eng 102 Composition]	3
Gen Ed	[PSc 120 Gov't; U.S., State & Local]	3
Gen Ed	[Comm 100 Oral Communication]	3
Gen Ed	[Bio 101 General Biology]	4
		16

Sophomore Year

1st Semester		Hours
Soc	Elective with approval of advisor	3
Gen Ed	[Math 131 Finite Math]	3
Gen Ed	[Literature]	3
Geog*		3
Gen Ed	[HPER 101 P. E. Activity]	2
Electives		3
		17

2nd Semester

Soc	Elective	3
Gen Ed	[Phys 100 Fund of Physical Science]	5
Gen Ed	[Humanities and Fine Arts]	3
Gen Ed	[Social Sciences Elective]	3
Gen Ed	[HPER 160 Personal Health]	2
		16

Junior Year

1st Semester		Hours
Soc 311	Social Class and Inequality**	3
Soc	Elective	3
Comp 105	Computing I	3
Gen Ed	[Humanities and Fine Arts]	3
Elective	[A minor is suggested]	3
		15

2nd Semester

Soc 362	Deviant Behavior**	3
Soc	Elective	3

Electives [A minor is suggested]
Applied Statistics** (Psy 320 or Math 310)

Senior Year

1st Semester		Hours
Soc 421	Sociological Theory**	3
Soc	Elective	6
Elective	[A minor is suggested]	6
		15
2nd Semester		Hours
Soc 432	Sociological Research Methods**	3
Soc 300	Computer Applications in the Social Sciences	3
Electives	[A minor is suggested]	9
		15

*Select from Geography 211, 311, or 322.

**Prerequisites

[] Dept. Recommendation.

The student is to select a minor in consultation with a Sociology advisor.

For additional information contact:
Dr. Conrad Gubera
Office: 201 Mansion
Phone: Ext. 453

THEATRE

FACULTY:

Bowman, Claussen, Hunt, D.

Specialized theatre training provides career opportunities in:

Theatre Performance
Television Production
T.V., Film & Radio Commercials
Public Relations
Stage Management
Graduate Study
Executive Leadership
Lighting Design
Recreational Directorship
Technical Theatre
Personnel Management
Government Service
Teaching Law

Of Missouri Southern Theatre graduates who sought employment, 87% are working professionally in one of the above career areas.

Factors Unique to Theatre Department:

1. hands-on experience for students in acting, house and stage management, directing, and technical design-execution;
2. a children's theatre play program performed for over 100,000 people from four-state area;

3. production participation open to all Missouri Southern students and faculty;
4. entire faculty practicing professionals in their teaching specialty;
5. opportunity for students and faculty to produce and present programs for community, business organizations, public school programs, workshops, and consultations annually;
6. a modern, well-equipped mainstage theatre as well as a small, unique Barn Theatre studio theatre.

The Theatre Department offers two degrees, a Bachelor of Arts with a Major in Theatre and a Bachelor of Science in Education with a Major in Theatre/Speech Plan B. A minor in Theatre is offered as well.

It is recommended that students pursuing a degree in theatre meet with their faculty advisor at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the Theatre Office, Room 243, of Taylor Performing Arts Center.

General Education requirement in Area 2 Humanities and Fine Arts, is fulfilled by Theatre Appreciation or a theatre theory course: Th. 331, 332, 351, or 441.

BACHELOR OF ARTS WITH A MAJOR IN THEATRE

	Semester Hours
General Education Requirements (see page 41) 46*	37
Computer Literacy Requirement— Educ. 401 or Comp. 115 or above 2-3	2
Foreign Language (two courses in one language)	10
Theatre Requirements	46
Th 142 Theatre Technology	3
Th 231 Speech for Stage	1
Th 232 Costume Technology	1
Th 233 Stage Make-up	1
Th 241 Acting I	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume & Design	3
Th 372 Directing II	3
Th 422 Acting III**	3
OR	
Th 431 Creative Dramatics	3
Th 441 Stage Design	3

Th 121, 122, 221, 222 Theatre Laboratory (select two)	4
Theatre Electives	9
Supporting Requirements	
Art 100 Art Composition	
OR	
Art 130 Beginning Drawing	3
Art History (upper division)	3
Hist 130 or 140 Western Civilization	3
Electives	

19-20
124***

*Required Theatre, Art and History courses satisfy Major requirements and 9 hours of General Education, but do not satisfy the U.S. History requirement. 3 hours in Area 4.
**See Prerequisites
***Must include at least 40 upper division (300 - 400 level) hours. A minor in another area is recommended.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN THEATRE/SPEECH COMMUNICATIONS

Plan B

Single Teaching Field

General Education Requirements (see page 41) 46*	
Computer Literacy Requirement—Educ 401	
Theatre Requirements	
Th 121 or 122 or 221 or 222 Theatre Laboratory	2
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 331 History of the Theatre	3
Th 332 History of the Theatre	3
Th 351 Directing I	3
Communications Requirements	
Comm 101 Introduction to Human Communications	3
Comm 215 Interpersonal Communication**	3
Comm 304 Small Group Communication	3
Comm 315 Argumentation & Debate	3
Theatre or Speech Communication Electives***	15
Education Certification Requirements (see pages 118-120)	37
Electives	2-3 124

*Required courses in Theatre and Psychology satisfy Major requirements and 6 hours of General Education.
**See Prerequisites
***Must be approved in advance by the student's advisor who must be selected from either the area of speech communication or theatre

MINOR IN THEATRE

Th 121, 122, 221, or 222 Theatre Laboratory (select two)	4
Th 110 Theatre Appreciation	3
Choose two from the following:	2
Th 231 Speech for the Stage	1
Th 232 Costume Technology	1
Th 233 Stage Make-up	1
Four courses from the following:	12*
Th 142 Theatre Technology	3
Th 212 Oral Interpretation	3
Th 241 Acting I	3
Th 298 Explorations in Theatre (when offered)	3
Th 320 Stage Lighting**	3
Th 331 Theatre History	3
Th 332 Theatre History	3
Th 341 Acting II**	3
Th 351 Directing I	3
Th 362 Stage Costume & Design	3
Th 372 Directing II	3
Th 422 Acting III**	3
Th 441 Stage Design (Theatre Technology)	3

*All courses must be chosen with an advisor's approval and 6 hours must be upper division.
**See Prerequisites

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 1007
Theatre Major

Freshman Year

1st Semester	
Course	
Th 121 OR 221 Theatre Lab	2
Th 241 Acting I	3
Gen Ed [Comm 100 or 131]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Hist 110 or 120 U.S. History]	3
Gen Ed [HPER 101 or equivalent]	2
Psy 120 College Orientation	1
	17

2nd Semester

Th 122 OR 222 Theatre Lab	2
Th 142 Theatre Technology	3
Gen Ed [Biological Science]	4
Gen Ed [Eng 102 Composition]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Gen Ed [HPER 160 Personal Health]	2
	17

Sophomore Year

1st Semester	
Elective [Th 121 OR Th 221 Theatre Lab]	2
Gen Ed [Foreign Language]	5
Gen Ed [Math 110 or equivalent]	3
Th 231, 232, 233 Theatre Practicum	3
Elective [Theatre or English]	3
	16

2nd Semester

Th 122 OR Th 222 Theatre Lab	2
Gen Ed [Foreign Language]	5
Gen Ed [Physical Science]	5
Gen Ed [Psychology]	3
Comp 115 Computing 1	3
	18

Junior Year

1st Semester	
Th 351 Directing I	3
Th 341 Acting II*	3
Th 441 Stage Design	3
Hist 130 or 140 Western Civilization	3
Art 100 or Art 130	3
	15

2nd Semester

Elective [Th 212 Oral Interpretation]	3
Th 362 Stage Costume	3
Th 372 Directing II	3
Art History 301, 302, 303, or 304	3
Elective [Literature]	3
	15

Senior Year

1st Semester	
Th 331 History of Theatre	3
Th 431 Creative Dramatics	3
Elective	3
Elective [Eng 450 Shakespeare or Eng 360 20th Century Drama]	3
Gen Ed [Econ 180 American Economic System]	3
	15

2nd Semester

Th 332 History of Theatre	3
Th 442 Acting III*	3
Elective from Upper Division	2
Elective from Upper Division	3
Elective [Acct 201 or Econ 202 or Bus 101]	3
	14

Supporting Electives:
Accounting, Art, Business, Communications, English

*See Prerequisites

[] Department Recommendation

For additional information contact:
Director of Theatre
Office: 243 Taylor Auditorium
Phone: 625-9393

ARTS AND SCIENCES

THEATRE

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0844

Speech and Theatre

Theatre Emphasis

Plan B

Single Teaching Field

Freshman Year

1st Semester

Course	Hours
Th 121 OR Th 221 Theatre Lab	2
Gen Ed [Humanities/Fine Arts]	3
Gen Ed [Eng 101 Composition]	3
Gen Ed [Comm 100 or Comm 131]	3
Gen Ed [History 110 or 120 U.S. History]	3
Gen Ed [HPER 101 or equivalent]	2
Psy 120 College Orientation	1
	17

2nd Semester

Th 122 OR 222 Theatre Lab	2
Gen Ed [English 102 Composition]	3
Gen Ed [Biological Science]	4
Psy 110 Psychology of Human Growth & Development	5
Th 212 Oral Interpretation	3
	17

Sophomore Year

1st Semester

Th 241 Acting I or Th 341 Acting II	3
Th 232, 233 Costume Tech and Stage Make-up	2
Gen Ed [Math 110 or equivalent]	3
Gen Ed [PSc 120 Gov't; U.S., State, & Local]	3
Comm 101 Intro. to Human Communication	3
Educ 370 Instructional Media	2
	16

2nd Semester

Th 142 Theatre Technology	3
Gen Ed [Physical Science or equivalent]	5
Psy 310 Educational Psychology	2
Gen Ed [Eng 271 or 272 English Literature]	3
Educ 302 Exceptional Child	2
Gen Ed [HPER 160 Personal Health]	2
	17

Junior Year

1st Semester

Educ 300 Clinical Experiences	2
Educ 330 Structures of Teaching Secondary	2
Th 351 Directing I	3
Th 331 History of Theatre	3
Th 341 Acting II or Th 241 Acting I	3
Comm 215 Interpersonal Communication	3
	16

2nd Semester

Th 362 Stage Costume	3
Th 332 History of Theatre	3
Th 372 Directing II	3
Elective [Eng 315 Exposition]	3
Educ 401 Use of Computer Software in Classroom	2
Educ 331 Micro Teaching	2
	16

Senior Year

1st Semester

Comm 304 Small Group Communications	3
Th 441 Stage Design	3
Gen Ed [Econ 180 American Economic System]	3
Educ 422 Reading in Secondary School	2
Comm 315 Argumentation and Debate	3
	14

2nd Semester

Educ 342 Teaching Methods Speech/Theatre	2
Educ 402 Foundations of Education	2
Educ 432 Critical Issues	2
Educ 412, 420, 423, Psy 412 (Select one)	2
Educ 462 Student Teaching	8
	16

Supporting Electives:

Accounting, Art, Business, Communications, English

*See Prerequisites

[] Department Recommendation

For additional information contact:

Director of Theatre
Office: 243 Taylor Auditorium
Phone: 625-9393

SCHOOL OF ARTS AND SCIENCES

COURSE DESCRIPTIONS

ART (Art)

Art Composition (F and/or S)

50.0799-100 3 hrs. cr.
Introduction to studio projects using fundamental techniques, media, and theories. Specially recommended toward meeting General Education requirements.

Art Appreciation (F and/or S)

50.0703-110 3 hrs. cr.
A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research, and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting General Education requirements.

Beginning Ceramics (F and/or S)

50.0202-120 3 hrs. cr.
Methods and techniques of throwing and/or hand building with application of glazing and firing. Six studio hours per week. Lab fee required.

Beginning Drawing (F and/or S)

50.0705-130 3 hrs. cr.
Free-hand drawing projects using art media and techniques applied by master artists. Six studio hours per week. Lab fee required. Prerequisite: Art 100 or instructor's approval.

Introduction to Design (F and/or S)

50.0401-132 3 hrs. cr.
Foundation studio projects using art principles and elements of structure. Primarily a two-dimensional design course. Six studio hours per week.

Arts & Crafts (F and/or S)

50.0299-200 3 hrs. cr.
Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts. Required for Special Education. Specially recommended toward meeting General Education requirements.

Beginning Jewelry Design/Metalsmithing (F and/or S)

50.0206-205 3 hrs. cr.
Creative exploration of design fabrications, casting, and forging processes. Six studio hours per week. Lab fee required. Prerequisite: Art 100 and/or Art 132.

Beginning Sculpture (F and/or S)

50.0709-211 3 hrs. cr.
Exploration of forming methods involving wood, clay, plaster, and mixed media with the emphasis on additive and subtractive techniques. Six studio hours per week. Lab fee required. Prerequisite: Art 132 and/or Art 230.

Art Education (F and/or S)

50.1302-220 3 hrs. cr.
Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both Elementary Education majors and Secondary Art Education majors.

Basic Form (F and/or S)

50.0401-230 3 hrs. cr.
Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hours per week. Lab fee required. Prerequisite: Art 100

Beginning Painting (F and/or S)

50.0708-232 3 hrs. cr.
Procedures, techniques and basic fundamentals of painting with oil, acrylic, watercolor, egg tempera, and mixed media. Six studio hours per week. Lab fee required. Prerequisite: Art 100 and Art 130.

Advanced Drawing (F and/or S)

50.0705-300 3 hrs. cr.
Self exploration of various drawing elements including composition, structure and aesthetics. Six studio hours per week. Lab fee required. May be repeated for a total of six (6) credit hours. Prerequisite: Art 100 and Art 130 or the approval of the instructor.

Art History, Prehistoric Through Gothic

50.0703-301 3 hrs. cr.
Survey of the visual arts from the Ancient World to the Gothic Age in Europe.

Art History, Renaissance Through Baroque

50.0703-302 3 hrs. cr.
Comparative study of the visual arts of Southern and Northern Europe from the early Renaissance through the Baroque and Rococo periods.

Art History, 19th Century

50.0703-303 3 hrs. cr.
Survey of Western Art in Europe and the United States from Neo-Classicism and Romanticism to Post-Impressionism.

Art History, 20th Century

50.0703-304 3 hrs. cr.
Study of the mainstreams of Western Art in Europe and the United States, including its sources and influences. Emphasis will be

placed on the succession of modernist art movements in France and Germany from 1900 to 1945 and in the United States from 1945 to present.

Seminar (F and/or S)

50.0799-305 3 hrs. cr.
Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hours in art. Strongly recommended by the art faculty.

Transparent Watercolor (F and/or S)

50.0708-310 3 hrs. cr.
Techniques and aesthetic processes of watercolor painting using landscape, figures and still lifes as subjects. Six studio hours per week. Lab fee required. May be repeated for a total of six (6) credit hours. Prerequisite: Art 130 or permission of the instructor.

Beginning Printmaking (F and/or S)

50.0799-312 3 hrs. cr.
Procedures, techniques and fundamentals of the Intaglio process; etching, drypoint, aquatint, softground and mixed media including color etching. Emphasis on drawing and design. Six studio hours per week. Lab fee required.

Advanced Sculpture (F and/or S)

50.0709-321 3 hrs. cr.
An extension of Beginning Sculpture with an introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hours per week. Lab fee required. May be repeated for a total of six (6) credit hours. Prerequisite: Art 211.

Advanced Sculpture (F and/or S)

50.0709-322 3 hrs. cr.
Continuation of Art 321. Six studio hours per week. Lab fee required. May be repeated for a total of six (6) credit hours.

Graphic Communications I (F)

50.0402-325 3 hrs. cr.
Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as a visual language. Includes lettering, layout and type/image relationships. Six studio hours per week. Lab fee required. Prerequisite: Art 100, Art 130 and Art 132.

Advanced Jewelry Design/Metalsmithing (F and/or S)

50.0206-330 3 hrs. cr.
Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hours per week. Lab fee required. May be repeated for a total of six (6) credit hours. Prerequisite: Art 205

ARTS AND SCIENCES

COURSES/BIOLOGY

Graphic Communications II (S)

50.0402-350 3 hrs. cr.
Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hours per week. Lab fee required. Prerequisite: Art 325

Advanced Painting (F and/or S)

50.0708-401 3 hrs. cr.
Students select an individual problem for self-development using a variety of media. Six studio hours per week. Lab fee required. May be repeated for a total of six credit hours. Prerequisite: Art 130 and Art 232.

Advanced Ceramics (F and/or S)

50.0202-407 3 hrs. cr.
Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hours per week. Lab fee required. May be repeated for a total of six credit hours. Prerequisite: Art 120.

Special Projects in Art I (F and/or S)

50.0799-420 3 hrs. cr.
Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of advanced courses and written approval of the instructor. Lab fee required. May be repeated for a total of six credit hours.

Life Drawing (F and/or S)

50.0708-421 3 hrs. cr.
Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six studio hours per week. Lab fee required. May be repeated for a total of six (6) credit hours. Prerequisite: Art 130 and Art 232.

Graphic Communications III (F)

50.0402-425 3 hrs. cr.
Continued study of Graphic Communications II with an emphasis on the design and preparation of three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hours per week. Lab fee required. Prerequisite: Art 350.

Advanced Printmaking (F and/or S)

50.0799-430 3 hrs. cr.
Advanced Intaglio techniques and color printing. Advanced studio methods for color registration, transfer and drawing, drypoint, mezzo-tint, etching, engraving and mixed media. Emphasis

on design, drawing, concept, technical proficiency and presentation. Six studio hours per week. Lab fee required. May be repeated for a total of six credit hours. Prerequisite: Art 312 or approval of the instructor.

Special Projects in Art II (F and/or S)

50.0799-440 3 hrs. cr.
Same as Art 420. May be repeated for a total six credit hours.

Graphic Communications IV (S)

50.0403-450 3 hrs. cr.
Study and techniques of illustration for printing and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hours per week. Lab fee required. May be repeated for a total of six credit hours. Prerequisite: Art 425.

Graphic Communications Internship (demand)

50.0402-475 1.8 hrs. cr.
An off campus work experience in a professional setting for advanced Art Majors with a Graphic Communications emphasis. All internships must conform with institutional policy regarding the number of hours per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hours of Graphic Communications, junior standing or above, and approval of a departmental committee.

Senior Exhibit (F)

50.0799-490 2 hrs. cr.
A course offered during the Fall semester each academic year to prepare senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. One hour of lecture and two hours of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

BIOLOGY (BIO)

General Biology (F,S)

26.0101-101 4hrs. cr.
A one semester general treatment of the unifying principles of living things including cell structure and function, metabolism, genetics, evolution, and ecology. Emphasis on these biological principles as they relate to humans. Three lectures and one 2 hr. lab per week. Fulfills general education requirement.

Man and Environment (F,S)

26.0101-110 4 hrs. cr.
A survey of environmental aspects of Biology including pollution, land use, population, energy

and organismic responses to these problems. Cellular, systemic, and genetic mechanisms are included. Three lectures and one 2 hr. lab per week. Fulfills general education requirement.

Botanical Survey (F,S)

26.0301-112 3 hrs. cr.
The morphology, physiology, and classification of plants are studied with an emphasis upon the diversity of the plant world. Two lectures and one 2 hr. lab per week. Prerequisite: Bio 101.

General Zoology (F,S)

26.0701-121 4 hr cr.
Introductory study of the basic principles of human cytology, metabolism, and genetics. Emphasis is on medical terminology as it relates to the anatomy of man in preparation for Bio 306. Three lectures and one 2 hr. lab per week. Fulfills general education requirement.

Zoological Survey (F,S)

26.0701-122 3 hrs. cr.
Morphology, physiology, and classification of animals are studied with emphasis upon the diversity of the animal world. Two lectures and one 2 hr. lab per week. Prerequisite: Bio 101.

Animal Science

5 hrs. cr.
26.0101-131 5 hrs. cr.
Fundamental principles of animal science at an introductory level. Includes kinds of livestock, related anatomy and physiology, genetics, and nutrition. Discussion of livestock contributions to human use and needs. Three lectures and two 2-hour labs per week. (Does not count toward a biology major)

General Physiology (F,S)

26.0401-210 4 hr cr.
Biological function at the cellular and molecular levels and physiological characteristics of both plant and animal cells will be studied. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 101, 112, 122, Chem 102.

Microbiology (S)

26.0501-211 5 hrs. cr.
Structure and function of microorganisms with emphasis on classification, the role of microorganisms in the environment, and the use of microorganisms in modern biological research. Three lectures and two 2 hr labs per week. Credit toward the biology major may include Bio 211 or 231 but not both. Prerequisite: Bio 101.

Fundamentals of Medical Microbiology (F)

26.0501-231 5 hrs. cr.
For students interested in the paramedical professions. Topics include the general principles of microbiology, immunology, and the identification of microorganisms. Three lectures and two 2 hr. labs per week. Prerequisite: 1 course of a

biological science. Credit toward the biology major may include either Bio 211 or 231 but not both.

Radiation Biology (S)

26.0610-240 3 hrs. cr.
A study of various types of radiation affecting man, the uses of radiation, and methods for monitoring radiation levels. Special emphasis will be placed on the types of physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Bio 306 and five hours of chemistry or acceptance into the School of Radiologic Technology.

Animal Nutrition

26.0609-261 3 hrs. cr.
A study of the fundamental principles of animal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Bio 131, Chem 101 and 102, Chem 301 or permission of the instructor. (Does not count toward any biology major).

Principles of Plant Propagation

26.0101-271 3 hrs. cr.
A comprehensive study of the principles of plant propagation emphasizing anatomy and physiology as well as principles controlling plant growth. Includes technical skills such as budding, grafting, and making cuttings. Two lectures and one 2 hr. lab per week. (Does not count toward a biology major)

Research Methods in Biology

26.0101-290 2 hrs. cr.
Development of investigational and technical skills required in biology and related fields. Benefits those who expect to collect and analyze data in independent study or on the job. Students learn to effectively use the library and to prepare proposals and reports. The course also familiarizes students with field and laboratory techniques, research design, microcomputer applications, and statistical analysis. Lecture and lab equivalent to two hours of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology.

Selected Topics in Biology

26.0101-298 1-8 hrs. cr.
Specific topic or topics not normally included in another course. Prerequisite: Bio 101, 112, and 122.

Genetics (F,S)

26.0703-305 4 hr cr.
Introduction to principles of heredity, gene structure, expression, and regulation. Emphasis will be placed on cytological and molecular approaches to gene action, linkage, recombination, and other genetic mechanisms. Lab exercises will illustrate genetic principles and techniques used in modern genetic research.

Three lectures and one 2 hr. lab per week. Prerequisite: Bio 101. Recommended courses: Bio 306, 211 or 231, Chem 101.

Human Physiology and Anatomy (F,S)

26.0601-306 5 hrs. cr.
Structure and function of the human body used to study both the arrangement of organs and coordination of body systems. Emphasis on physiological processes and their anatomical basis. Three lectures and two 2 hr. labs per week. Prerequisite: Bio. 121 or 101 and 122.

Pathophysiology (F)

26.0704-308 4 hr cr.
Altered physiological states, the cellular manifestations and causes of disease and adaptation to the alterations. Three lectures and one 3 hour lab per week. Prerequisite: Bio 306 and Bio 211 or 231.

Field Biology

26.0603-310 2 hrs. cr.
Appreciation and understanding of the local flora and fauna, information pertinent to preparation and preservation of specimens for laboratory use will be studied. One lecture and one 2 hr. lab per week. Prerequisite: Bio 101 or permission of instructor. (Does not count toward a biology major.)

Environmental Biology (F)

26.0603-312 4 hr cr.
Environmental factors and their interactions with living things. Emphasis will be on human ecology and wise natural resource utilization. Three lectures and one 2 hr. lab per week. Prerequisite: Phys. 100, Bio 101, Math 110, or permission of the instructor.

Economic Botany (F)

26.0301-316 3 hrs. cr.
Economic uses of plants, and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural, and crop selection viewpoint as well as from a pharmacological, textile usage, etc. view. Three lectures a week. Prerequisite: Bio 101 or equivalent.

Cell Biology (S,Odd)

26.0401-318 4 hr cr.
Detailed cell structure and function with emphasis on both cytological anatomy and physiology. Three lectures and one 2 hr lab per week. Prerequisite: Bio 112, 122, 210, 305, and Chem 301 or consent of the instructor.

Taxonomy of Flowering Plants (S)

26.0301-322 4 hr cr.
Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant char-

acters. Southwestern Missouri flora emphasized. Two lectures and two 2 hr. labs per week. Prerequisites: Bio 101 and 112.

Comparative Vertebrate Anatomy (F)

26.0704-331 5 hrs. cr.
Fundamental course designed to enhance understanding and appreciation of the structure and adaptations of vertebrates, including humans. Emphasis on evolution and the relationship between structure and function includes certain non-traditional topics, such as quantitative studies of allometry, sexual dimorphism and biomechanics. Two lectures and two 3 hr. labs per week. Prerequisites: Bio 101 or 121, and 122.

Introduction to Entomology (F,Even)

26.0702-332 3 hrs. cr.
Collecting methods, taxonomy, life history, morphology and evolution of insects are emphasized. Prerequisites: Bio 101 and 122. Two lectures and one 3 hr. lab per week.

Microtechnique (demand)

26.0501-342 2 hrs. cr.
Principles of preserving, fixing, staining and mounting biological materials. Prerequisites: Bio 101 and 121. Two 2 hr. labs per week.

Ichthyology (S,Even)

26.0701-344 3 hrs. cr.
Investigation of fishes of North America with special emphasis on local species. Natural history, morphology and function of fishes in relation to man. Prerequisite: Bio 122 or equivalent.

Biomes (S)

26.0603-352 2 hrs. cr.
Interactions between plants and animals in a variety of habitats. Extended field trip comprises a significant portion of this course. One hour per week will be spent in the classroom during the preceding semester in preparation for the field trip. Travel expenses must be paid by the student during registration. Prerequisites: Bio 101, 112, 122 and permission of the instructor.

Parasitology (F,Even)

26.0601-361 4 hr cr.
Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect man. Three lectures and one 3 hr. lab per week. Prerequisite: Bio 101, 122.

Virology (F,Odd)

26.0501-362 3 hrs. cr.
Structure and life cycles of bacterial, animal, and plant viruses, their significance in disease (including cancer), and the use of viruses in modern biological research will be emphasized. Three lectures per week. Prerequisites: Bio 211 or 231, and 305.

ARTS AND SCIENCES

COURSES/CHEMISTRY

Environmental Health (S)

26.0704-370 4 hr cr.
Contemporary environmental health problems and public protection measures are emphasized. These will include public disease prevention, vector control, etc. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 211 or 231, Junior standing in science or permission of instructor.

Plant Physiology

26.0307-371 4 hr cr.
Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development, and factors producing physiological stress in the plant world. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 210.

Ornithology (S,Odd)

26.0701-381 3 hrs. cr.
Study of birds, including anatomy, physiology, ecology, behavior, and taxonomy. Laboratory portion emphasizes the identification of local forms and exposes the student to research in ornithology and the techniques used in the management of bird populations. Early morning and weekend field trips are required. Prerequisites: Bio 101 or 121, 122, 290, or permission of the instructor. The equivalent of two lectures and one, two hour laboratory per week.

General Ecology (S)

26.0603-402 4 hr cr.
Plant and animal communities and their interaction within the environment. Emphasis on the flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures and one 3 hr. lab per week. Prerequisite: Bio 101, 112, and 322, or consent of the instructor.

Animal Physiology (S,Odd)

26.0706-431 5 hrs. cr.
A comparative and ecological approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures and two 2 hr. labs per week. Prerequisite: 10 hrs. of biology. Bio 210, 331, and Chem 300 or 301 recommended.

Histology (S,Even)

26.0606-433 4 hr cr.
Microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures and one 3 hr. lab per week. Prerequisite: 10 hours of zoology or consent of instructor.

Invertebrate Zoology (F,Odd)

26.0706-422 5 hrs. cr.
Classification, morphology, physiology, development and evolution of the classes of inverte-

brate animals. Three lectures and two 2 hr. labs per week. Prerequisite: Bio 122.

Plant Pathology

26.0305-440 4 hr cr.
Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease, and examples of management systems. Three lectures and one two-hour lab per week. Prerequisites: Bio 101 and 112.

Internship in Biology

26.9999-450 1-8 hrs. cr.
In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: at least a second semester junior standing in Biology with a minimum of 20 Biology hours and 20 senior hours.

Immunology (S,Even)

26.0704-456 3 hrs. cr.
Cellular and molecular basis of the immune response in vertebrates, will be studied including the role of the immune systems in disease prevention, hypersensitivity, transplantation immunity, and regulation of the immune response. Recommended for students who are interested in careers in cellular and molecular biology and medicine. Three lectures per week. Prerequisites: Bio 211 or 231, and 305.

Embryology (S,Odd)

26.0604-462 5 hrs. cr.
Includes detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures and two 2 hr. labs per week. Prerequisite: Bio 122 and/or 331.

Aquatic Biology

26.0101-481 4 hr cr.
Analysis of components of freshwater systems, both impoundment and stream environments. Prerequisite: Bio 122 or equivalent.

Seminar (F,S)

26.9999-490 1 hr. cr.
Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Faculty members, as well as students, will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hours of biological science.

Seminar in Biology (F,S)

26.9999-498 1-3 hrs. cr.
For upper division majors only. Meets regularly a minimum number of hours. Designed to give

specialized instruction in some discipline of biology not covered in other courses. Prerequisite: Junior standing, 20 hours in biology and a minimum GPA of 2.5 in biology, or permission of instructor required.

Problems in Biology (F,S)

26.9999-499 1-3 hrs. cr.
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisite: A minimum GPA of 3.0 in 20 hours of biology.

Biology Majors may take Bio 131, 261, 271 or 310, but should be advised that these courses will not count toward semester hour total for any of the departmental degrees.

CHEMISTRY (Chem)

Introductory Chemistry (F,S)

40.0501-100 5 hrs. cr.
Basic principles and practical applications of inorganic, organic and biochemistry which satisfies either the general education science requirement or the needs of students in certain health-related programs. Three lectures, one 3-hour laboratory, and one recitation session per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

General Chemistry I (F,S)

40.0501-101 5 hrs. cr.
Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Three lectures, one 3-hour laboratory, and one recitation session per week. Prerequisite or corequisite: Math 140 or higher level math course.

General Chemistry II (F,S)

40.0501-102 5 hrs. cr.
A continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Three lectures, one 3-hour laboratory, and one recitation session per week. Prerequisites: Chem 101 with a minimum grade of C or permission of instructor and Math 140 or higher level math course.

Analytical Chemistry I (F)

40.0502-201 5 hrs. cr.
The standard first course in quantitative chemical analysis. The lecture and laboratory include the theory and practice of volumetric, gravimetric, potentiometric and spectrophotometric methods of analysis. While the primary empha-

sis in the first semester of analytical chemistry is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures and two 3-hour laboratories per week. Prerequisite: Chem 102.

Selected Topics in Chemistry (F,S)

40.0599-298 1-3 hrs. cr.
Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Intro to Modern Organic Chemistry (S)

40.0504-300 5 hrs. cr.
Principles of organic chemistry—nomenclature, structure, properties, stereochemistry, reactions—will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Three lectures, one 3-hour laboratory, and one recitation session per week. Prerequisite: Chem 102.

Organic Chemistry I (F)

40.0504-301 5 hrs. cr.
Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions and stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. A brief introduction to organic spectroscopy included. Three lectures, one 3-hour laboratory, and one recitation session per week. Prerequisite: Chem 102.

Organic Chemistry II (S)

40.0504-302 5 hrs. cr.
A continuation of Chem 301. Organic spectroscopy is discussed in detail. The functional group approach is continued: Aryl halides, phenols, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition, and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and laboratory. Three lectures, one 3-hour laboratory, and one recitation session per week. Prerequisite: Chem 301

Biochemistry (F)

26.0201-351 4 hrs. cr.
Fundamental concepts of the chemistry of lipids, carbohydrates, and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures and one 3-hour laboratory per week. Prerequisite: Chem 300 or 302.

Physical Chemistry I (F,Odd)

40.0506-401 4 hrs. cr.
Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. The ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three lectures and one 3-hour laboratory per week. Prerequisites: Math 250 and Phys 250.

Physical Chemistry II (S,Even)

40.0506-402 4 hrs. cr.
A continuation of Chem 401. A Microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases, and chemical kinetics. Three lectures and one 3-hour laboratory per week. Prerequisite: Chem 401.

Analytical Chemistry II (S)

40.0502-421 5 hrs. cr.
A continuation of Chemistry 201. A study of the overall analytical process. The lecture and laboratory deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures and two 3-hour laboratories per week. Prerequisite: Chem 201.

Advanced Inorganic Chemistry (F,Even)

40.0503-422 4 hrs. cr.
Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures and one 3 hour laboratory per week. Prerequisites: Chem 102 and Math 250.

Organic Qualitative Analysis (S,Odd)

40.0509-472 4 hrs. cr.
Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures and two 3-hour laboratories per week. Prerequisite: Chem. 302.

Seminar (F,S)

40.0599-498 1-3 hrs. cr.
For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: senior standing or permission of the department head.

Independent Study (F,S)

40.0599-499 1-3 hrs. cr.
Independent investigation techniques; includes a paper a selected topic with both a critical sur-

vey of the chemical literature and results from advanced laboratory experimentation. Open to students having (1) minimum of 15 hours of chemistry, (2) the ability to undertake independent work, and (3) permission of the instructor. Registration must be approved by the advisor, department head, and school dean.

COMMUNICATIONS (Comm)

Oral Communication (F,S)

09.0101-100 3 hrs. cr.
Fundamental principles of oral communication; designed to improve self-expression through the development of organizational abilities and skilled delivery. Emphasis is on the spoken word. (Meets General Education requirements.)

Introduction to Human Communication (F)

09.0101-101 3 hrs. cr.
Basic survey of the scientific approaches to human symbolic exchange. Preparation for entering the field of communications. (Will not meet General Education requirements.)

Business and Professional Speech (F,S)

09.0101-103 3 hrs. cr.
A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion, and individual speaking formats are included. (Meets General Education requirements and is recommended for business and management majors.)

Newsriting (F,S)

09.0401-111 3 hrs. cr.
Development of techniques in reporting and writing for a newspaper. Work on the college newspaper, *The Chart*, is required.

Mass Communications Theory (S)

09.0401-120 3 hrs. cr.
Principles, history and development of the media and their role in political, social, and economic life of the present.

Forensics Workshop (F,S)

23.1001-121 (Per sem.) 1 hr. cr.
A practicum in forensics, including research, organization, and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hours of credit.

Introduction to Broadcasting (S)

09.0701-130 3 hrs. cr.
The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.

ARTS AND SCIENCES

COURSES/COMMUNICATIONS

Voice and Articulation (F,S)

23.1001-131 3 hrs. cr.
Techniques for improving the speaking voice. Attention to phonetics, articulation, pronunciation, and general expression. (Meets General Education requirements and is recommended for education majors.)

Radio Production (F)

09.0701-200 4 hrs. cr.
Development of announcing skills. Exercises in microphone techniques; introduction to control board; basic production techniques; development of radio station's staff requirements and responsibilities; introduction to programming and formats. Project programs are taped for analysis. Two hours of lecture, four hours of laboratory per week. Prerequisites: Comm 100 or 131, and 130.

Television Production (S)

09.0701-201 4 hrs. cr.
Intensive practice in preparation and production of television programs. Camera techniques, floor set-ups, and direction of crews and talent. Interviewing techniques. Development of varied "on-the-air" skills. Two hours of lectures, four hours of laboratory per week. Prerequisite: Comm 200.

Interpersonal Communication (F)

09.0101-215 3 hrs. cr.
Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading, and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100 or 131.

Practicum in Communications (F,S)

09.0401-220 (Per sem) 1 hr. cr.
Laboratory experience on the staff of the college newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hours per week is required. One hour of credit each term for a maximum of three terms. Prerequisite: Consent of instructor.

Feature Writing (F)

09.0401-231 3 hrs. cr.
Investigative reports and special articles for newspapers and magazines. Work on the college newspaper is required. Prerequisite: Comm 111 or consent of instructor.

Copyediting (S)

09.0401-233 3 hrs. cr.
Principles of copy reading and editing, design of newspaper. Paste-up techniques. Students work in positions of major responsibilities on the college newspaper, *The Chart*. Prerequisite: Comm 111.

Selected Topics in Communications (Demand)

09.0101-298 1-8 hrs. cr.
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Organizational Communication (F,Even)

23.1001-300 3 hrs. cr.
The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and 215.

Broadcast and Cable Management (S,Even)

09.0701-301 3 hrs. cr.
Broadcast station administration, market analysis, policy determination, station organization, sales, programming, network relationships, community involvement, and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.

Photocommunications (Demand)

09.0401-302 3 hrs. cr.
Theory and practice of communication through the media of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

Small Group Communication (F,Even)

09.0101-304 3 hrs. cr.
Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem solving, decision making, and leadership style.

Communication Law (S,Odd)

09.0401-310 3 hrs. cr.
Statutes, administrative regulations, and court decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising and broadcasting. Rights, privileges, and obligations of the press.

Introduction to Public Relations (F,Odd)

09.0101-311 3 hrs. cr.
Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial reporting, visual and electronic media techniques. Prerequisite: Comm 111.

Scholastic Publications (Demand)

09.0401-312 3 hrs. cr.
Editorial and production practices of school newspapers and yearbooks. The role of the publications advisor; advanced publication work on the college newspaper or yearbook. Prerequisite: 12 hours in media courses.

Argumentation and Debate (F,Even)

23.1001-315 3 hrs. cr.
The theory of the modern forms of evidence, evaluations, arguments, methods of refutation, and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100 or 131 or consent of instructor.

Forensics Workshop (F,S)

23.1001-321 (Per Sem.) 1 hr. cr.
Advanced practicum in the area of forensics, including research, organization, and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hours of credit. Prerequisite: Junior or senior standing.

Broadcast News Reporting (F)

09.0601-325 3 hrs. cr.
Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production, and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

Advanced Communications Practicum (F,S)

09.0401-330 2 hrs. cr.
Intensive laboratory experience on the staff of the college newspaper, yearbook, or broadcast media. Students will work for a minimum of 10 hours per week in positions of major responsibilities. May be repeated for a maximum of six hours of credit. (Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected.)

Internship in Communications (F,S,Summer)

09.0101-345 8 hrs. cr.
Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. The student works under joint supervision of a faculty member and a representative of the organization providing the intern experience. Prerequisites: Communications major with a minimum of 85 semester hours; approval of the department head prior to enrolling.

TV Programs and Programming (F,S)

09.0701-402 4 hrs. cr.
Methods and principles of television programming and program preparation. Emphasis will

be placed upon preparation of educational and cultural programs. Prerequisite: Comm 201.

Political and Social Communication (S,Even)
09.0101-411 3 hrs. cr.
Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading, and discussion. Prerequisite: Comm 100, 103, or 131, and junior or senior standing.

Professional Communication Skills (S,Odd)
09.0101-490 3 hrs. cr.
Writing, speech preparation, and the public presentation of ideas. Both written and oral presentations are required, and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100, 103, or 131; Eng 102.

International Communication (S,Odd)
09.0101-493 3 hrs. cr.
Analysis of factors influencing communication across cultural and national boundaries. Topics include language diversity, value and perceptual differences, nonverbal symbols, ethnocentrism, international broadcasting, media imperialism, and the "New World Information Order." Prerequisite: Comm 100, 103, or 131, and junior or senior standing.

Seminar in Speech Communication (Demand)
09.0101-498 3 hrs. cr.
For upper-division students. Topics to be announced each time the course is offered.

Seminar in Mass Communications (Demand)
09.0401-498 1-3 hrs. cr.
For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Senior standing and at least 15 hours of communications courses. Juniors may enroll with permission of instructor.

Independent Study in Speech Communication
09.0101-499 1-3 hrs. cr.
An independent course structured by the advisor with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0 or approval of the department head. Registration must be approved by advisor, department head, and school dean.

Independent Study in Mass Communications
09.0401-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: A GPA of 3.0 in the major field and 15 hours of communications. Registration must be approved by the advisor, department head, and school dean.

ENGLISH (Eng)

Basic Composition

23.0401-080 3 hrs. cr.
For students whose placement scores indicate that they cannot successfully complete the normal sequence of Eng. 101-102 without special help and individual attention. The course concentrates on basic grammar, punctuation, usage, and the principles of effective writing, with a special focus on effective sentences and paragraphs. Students must complete this course with a passing grade before they will be permitted to enroll in English 101.

Freshman Composition I

23.0401-101 3 hrs. cr.
Principles of effective writing based upon expository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111.

Freshman Composition II

23.0401-102 3 hrs. cr.
Continued development of writing skills. Initiation, development, and completion of a research paper.

Technical Writing

23.0401-103 3 hrs. cr.
Second-semester composition course focused on the practical demands of on-the-job writing. Prerequisite: English 101, with a grade of C or better. This course substitutes for English 102, except for majors in the School of Business or for the Bachelor of Science in Education degree.

Advanced Freshman Composition

23.0401-111 3 hrs. cr.
For freshmen demonstrating exceptional proficiency on placement tests. With a grade of C or better in English 111, a student also automatically receives three hours credit for English 101, thereby satisfying the six-hour composition requirement. However, students receiving a D in English 111 must take English 102.

Introduction to Literature

23.0101-150 3 hrs. cr.
An examination of literary themes, techniques, and approaches reflected in the genres of fiction, poetry, and drama.

Creative Writing (S)

23.0501-216 3 hrs. cr.
Writing of prose, poetry, and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills.

Masterpieces of World Literature

23.0301-261 3 hrs. cr.
Selected literature through the Renaissance, excluding British and American literature.

Masterpieces of World Literature

23.0301-262 3 hrs. cr.
Selected literature from the Renaissance to the present, excluding British and American literature.

English Literature

23.0801-271 3 hrs. cr.
Survey of English literature from its beginnings through the eighteenth century.

English Literature

23.0801-272 3 hrs. cr.
Survey of English literature from the Romantic Movement to the present.

American Literature

23.0701-281 3 hrs. cr.
A survey of American literature from its beginnings to the Civil War.

American Literature

23.0701-282 3 hrs. cr.
A survey of American literature from the Civil War to the present.

Explorations in Literature [Demand]

23.0101-298 3 hrs. cr.
Studies in a variety of literary subjects. Topic open.

Modern Grammar (F)

23.0101-301 3 hrs. cr.
Survey of the major descriptive approaches to English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage, and practical classroom applications.

The Short Story

23.0101-305 3 hrs. cr.
An in-depth study of the short story with representative writers from throughout the world.

Professional Writing (F)

23.0401-310 3 hrs. cr.
An advanced course focused on the technical writing demands of professional occupations.

Exposition (S)

23.0401-315 3 hrs. cr.
The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hours composition.

Composition for Teachers (F)

23.0401-319 3 hrs. cr.
For prospective teachers of English. A review of grammar, practice in writing, and the theory of teaching writing.

ARTS AND SCIENCES

COURSES/LANGUAGES

Children's Literature (S)

23.0101-325 3 hrs. cr.
A reading, lecture, and observation course for elementary education students, including evaluation of children's literature, its historical development, and its uses in the elementary school. Does not count toward an English major and does not meet general education literature requirements.

Literature for Adolescents

23.0101-330 3 hrs. cr.
An extensive reading course for English education students including evaluation of adolescent literature, some methodology for classroom use, and a major unit on minority literature.

Women's Literature

23.0101-335 3 hrs. cr.
A study of the literary tradition of women authors writing in English.

Black American Literature

23.0701-340 3 hrs. cr.
Writings by Black Americans from the Colonial Period to the present.

The American Novel

23.0701-345 3 hrs. cr.
Representative works of authors such as Hawthorne, Melville, Twain, and Faulkner.

Recent American Fiction

23.0701-350 3 hrs. cr.
The major movements in American fiction since World War II.

Twentieth Century Drama

23.0101-360 3 hrs. cr.
World drama from Shaw to the present.

Twentieth Century Poetry

23.0101-370 3 hrs. cr.
English and American poetry from Yeats to the present.

The English Novel

23.0801-380 3 hrs. cr.
Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens, and Joyce.

Continental Novel

23.0301-385 3 hrs. cr.
Representative works by European novelists of the nineteenth and twentieth centuries.

History of the English Language (S)

23.0801-400 3 hrs. cr.
The ancestors of English and the effect of other languages, peoples, and cultures upon its development. Phonology, morphology, syntax, and usage of the language throughout its history.

Medieval English Literature

23.0801-410 3 hrs. cr.
Literature of England in the Anglo-Saxon and Middle English periods. Emphasis upon the works of Chaucer.

Renaissance Prose and Poetry

23.0801-415 3 hrs. cr.
English poetry and prose from 1500 to 1660.

English Drama to 1800

23.0801-420 3 hrs. cr.
English drama from its beginnings to 1800 (excluding Shakespeare).

Restoration and Eighteenth Century English Literature

23.0801-425 3 hrs. cr.
The rise of Neoclassicism, the Enlightenment, and the decline of Neoclassicism in literature from 1660-1798, Dryden to Gray.

The Romantic Period

23.0801-430 3 hrs. cr.
English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.

The Victorian Period

23.0801-435 3 hrs. cr.
English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning, and Dickens.

Shakespeare (F)

23.0801-450 3 hrs. cr.
Selected comedies, histories, tragedies, romances, and poems.

American Literature: Major Figures

23.0701-460 3 hrs. cr.
An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author.

Literary Criticism

23.0101-480 3 hrs. cr.
Major schools of criticism and the major representatives of each school.

Seminar in Literature

23.0101-498 3 hrs. cr.
For advanced English majors or by permission of department head. Topic open.

Independent Study

23.0101-499 1-3 hrs. cr.
Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Registration must be approved by adviser, department head, and school dean.

FOREIGN LANGUAGE

FRENCH (Fren)

Beginning French (F)

16.0901-101 5 hrs. cr.
Conversation, pronunciation, essentials of grammar and diction.

Intermediate French (S)

16.0901-102 5 hrs. cr.
Spoken language vocabulary building, pronunciation proficiency and grammar essentials.

Readings in French Literature (F)

16.0901-201 3 hrs. cr.
Intermediate reading, discussion of literature in French, emphasis on vocabulary building, grammar review. Prerequisite: Fren 102 or equivalent.

Advanced Readings in French Literature (S)

16.0901-202 3 hrs. cr.
Representative works read and discussed in French. Short stories, a novel, and poetry. Prerequisite: Fren 201 or equivalent.

French Composition (Demand)

16.0901-301 3 hrs. cr.
Practice in writing French accompanied by a thorough study of grammar and syntax. Prerequisite: Fren 202 or equivalent.

Advanced French Composition (Demand)

16.0901-302 3 hrs. cr.
Practice in writing French compositions. Thorough study of grammar, syntax, and idiomatic expressions. Prerequisite: Fren 301.

Survey of French Literature (Demand)

16.0901-322 3 hrs. cr.
French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Fren 321.

GERMAN (Ger)

Beginning German (F)

16.0501-101 5 hrs. cr.
Conversation, pronunciation, essentials of grammar and diction.

Intermediate German (S)

16.0501-102 5 hrs. cr.
Spoken language, vocabulary building, pronunciation proficiency and grammar essentials.

Readings in German Literature (F)

16.0501-201 3 hrs. cr.
Intermediate reading, discussion of literature. Emphasis on vocabulary building, grammar review. Prerequisite: Ger 102 or equivalent.

ARTS AND SCIENCES

COURSES/GEOGRAPHY, GEOLOGY

Advanced Readings in German Literature (Demand)

16.0501-202 3 hrs. cr.
Reading and discussion of representative works in German with emphasis on conversation, syntax and literary significance. Pre-requisite: Ger. 201 or equivalent.

SPANISH (Span)

Beginning Spanish (F,S)

16.0905-101 5 hrs. cr.
Oral-aural method is used to develop concurrently the skills of speaking, understanding, reading, and writing in Spanish. Emphasis on developing speaking skills through the structured presentation of basic grammatical principles, and vocabulary, and through conversational sessions. Five classes; lab required, consisting of listening to tapes to develop basic language patterns and to reinforce pronunciation skills.

Intermediate Spanish (F,S)

16.0905-102 5 hrs. cr.
Continuation of basic grammar. Acquisition of a more thorough understanding of the fundamentals of Spanish. Growing emphasis on reading and writing. Five classes; lab required, consisting of listening to tapes to develop basic language patterns and to reinforce pronunciation skills.

Accelerated Beginning Spanish (F)

16.0905-103 3 hrs. cr.
Oral-aural method is used to develop concurrently the skills of speaking, understanding, reading, and writing Spanish. Emphasis on basic grammatical principles and vocabulary. Covers substantial portion of the basic grammar. 3 hours; lab required. Course designed for students who have completed a minimum of 2 years of Spanish at the high school level. Pre-requisite: Permission.

Accelerated Intermediate Spanish (S)

16.0905-104 3 hrs. cr.
Continuation of 103. Acquisition of a more thorough understanding of the fundamentals of Spanish. Stresses spoken language, vocabulary building, pronunciation proficiency and grammar essentials. 3 hours language lab required. Course designed for students who have completed Spanish 104. Prerequisite: Permission.

Readings and Conversations (F,S)

16.0905-201 3 hrs. cr.
Maximum attention to the active skills of understanding and speaking. Discussion on current issues and cultural reading selections. Translation work stresses main syntactical differences

between Spanish and English. Explanations of major aspects of phonology and the basic norms of morphology to facilitate oral fluency and vocabulary acquisition. One hour of lab work required for active conversational practice.

Introduction to Hispanic Literature and Culture (F,S)

16.0905-202 3 hrs. cr.
Skills of understanding and speaking through the examination of short literary selections by Peninsular and Spanish American writers as presented in their cultural context. Readings in Spanish Civilization.

Selected Topics in Spanish (Demand)

16.0905-298 3 hrs. cr.
Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Survey of Peninsular Literature (F)

16.0905-319 5 hrs. cr.
Spain's literary history and important representative works and writers from El Cid to the present. Conducted in English and Spanish.

Spanish Syntax and Composition (S)

16.0905-320 5 hrs. cr.
Practice in writing Spanish accompanied by a thorough study of grammar and syntax with emphasis on subtle elements of idiomatic usage. One hour of laboratory work is required, providing students with active conversational practice.

Introduction to Spanish American Literature (S)

16.0905-332 3 hrs. cr.
Major periods, movements, themes, genre and styles of Spanish American Literature with focus on both its artistic and social importance. Includes: history, epic and lyrical poetry, short story and some essay. Conducted in Spanish.

The Novelistic Tradition: From Cervantes to the Anti-Realism Tendencies in Modern Fiction (Demand)

16.0905-440 3 hrs. cr.
Structure, narrative technique, and aesthetic concepts underlying prose fiction as seen through Cervantes, Rabelais, Flaubert, Balzac, Dickens, Kafka, Garcia-Marquez and Borges. Conducted in English. Open to non-majors. Can be counted toward a major in English but not as a part of the General Education requirements. Prerequisites: Eng 101 and 102 or 103.

Independent Study (F,S)

16.0905-499 1-3 hours cr.
Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: A grade point average of 3.0 in the major field and

15 hours of Spanish. Registration must be approved by the advisor, department head, and school dean.

GEOGRAPHY (Geog)

Regions and Nations (F, S)

45.0701-211 3 hrs. cr.
Survey of the peoples of the earth and how their activities are influenced by climate, topography and natural resources.

Topics in Geography (On Demand)

45.0701-298 3 hrs. cr.
Special geography topics of current interest. Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the Social Sciences Department.

Political Geography (On Demand)

45.0701-311 3 hrs. cr.
Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Economic Geography (On Demand)

45.0701-322 3 hrs. cr.
World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geography And Culture Of Latin America (On Demand)

45.0701-412 3 hrs. cr.
Cultural and physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands. Special emphasis is on current problems and relations with the United States.

Geography Of The United States And Canada (On Demand)

45.0701-422 3 hrs. cr.
Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.

Seminar in Geography (On Demand)

45.0701-498 1-2-3 hrs. cr.
Study and analysis of selected topics in regional, urban-economic, cultural or physical geography.

GEOLOGY (Geol)

Introduction to Geology (S)

40.0601-110 5 hrs. cr.
Materials of the earth and those forces produc-

ARTS AND SCIENCES

COURSES/HISTORY

ing physiographic changes. Three lectures and two 2-hour laboratory or field trips a week.

Earth Environments (Demand)

40.0601-300 4 hrs. cr.
Aspects of the solid earth, the liquid environments of earth and our atmosphere. Discussions of interactions of these and their relationships to human society. Prerequisite: Phys 100.

Historical Geology (Demand)

40.0601-320 4 hrs. cr.
History of the earth, the fossil record, and physical features resultant from earth dynamics of the past. Prerequisites: Phys 100, Geol 110 or equivalent.

Studies in Geology (Demand)

40.0601-498 1-3 hrs. cr.
Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hours. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: junior standing, Geol 110 and a minimum GPA of 2.5 in 8 hours of biology and 8 hours of chemistry. Permission of the instructor required.

Problems in Geology (Demand)

40.0601-499 1-3 hrs. cr.
Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: a minimum GPA of 3.0 in 20 hours of science, Geol 110, and a proven interest in geology.

HISTORY (Hist)

I. U. S. History Courses

United States History 1492-1877 (F, S)

45.0801-110 3 hrs. cr.
Survey of the United States from the era of discovery through reconstruction. Meets the General Education requirement for all majors.

United States History 1877 to Present (F, S)

45.0801-120 3 hrs. cr.
Survey of the economic, social and political development of the United States from 1877 to the present. Meets the General Education requirement for all majors.

Topics in History (On Demand)

45.0801-298 3 hrs. cr.
Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

* Introduction to Public History (F)

45.0801-305 3 hrs. cr.
Public history serves the public through training and education of social sciences students in policy analysis, information gathering and dissemination, preservation, organizational management, and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

United States Social and Intellectual History (On Demand)

45.0801-310 3 hrs. cr.
Ideas, values and institutions that have nurtured and influenced the United States. Prerequisite: three hours of history or consent of the instructor.

* Economic History of the United States (F, Even)

45.0801-315 3 hrs. cr.
Development of the American economy and its related institutions from the early national period to the present.

The American Frontier (F, Odd)

45.0801-325 3 hrs. cr.
The westward expansion of the United States and its effects upon the social, political and economic institutions until the close of the frontier in 1890.

History of the American Indian (On Demand)

45.0801-330 3 hrs. cr.
Social, political, diplomatic, military and legal history of the native American society.

* Diplomatic History of the United States to 1900 (F, Even)

45.0801-335 3 hrs. cr.
Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Twentieth Century Diplomacy (S, Odd)

45.0801-340 3 hrs. cr.
An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

Age of Jefferson and Jackson (On Demand)

45.0801-345 3 hrs. cr.
Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.

Civil War and Reconstruction (S)

45.0801-350 3 hrs. cr.
Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

* The South (F, Even)

45.0801-355 3 hrs. cr.
Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

History of Missouri (F, Odd)

45.0801-360 3 hrs. cr.
Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.

United States Colonial History (On Demand)

45.0801-365 3 hrs. cr.
Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political and economic growth. Includes the Revolutionary War period.

United States Military Experience 1775 to Present (S)

45.0801-400 3 hrs. cr.
Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization, and technology.

The United States 1870-1920 (On Demand)

45.0801-405 3 hrs. cr.
United States at the turn of the century with the impact of the industrial revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.

The United States Since 1920 (S, Even)

45.0801-410 3 hrs. cr.
Impact of politics, diplomacy and economic trends of the United States since 1920.

United States Constitutional History (On Demand)

45.0801-420 3 hrs. cr.
Growth and development of the United States Constitution from 1787 to the present.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/ advisor with approval of the Department Head and the Dean of the School of Arts and Sciences. Advanced standing in the major field and a minimal grade point average of 3.0 are required.

II. European History Courses

Western Civilization to 1660 (F, S)

45.0801-130 3 hrs. cr.
Development and progress of western civilization from its origins through the Reformation. Changes in political organization, religion, artistic expression and daily life in the ancient Near East, Greece, Rome, and Christian Europe. May be used as a General Education elective.

Western Civilization Since 1660 (F, S)

45.0801-140 3 hrs. cr.
Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and religious outlook, the impact of revolutions and two world wars. May be used as a General Education elective.

Topics in History (On Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Medieval History (F, Odd)

45.0801-320 3 hrs. cr.
Europe from the end of the Roman Empire to c. 1500. Emphasis on the emergence of the Papacy, manorialism and feudalism, on the development of cities and an urban economy, and on intellectual life and artistic expression.

Nineteenth Century Europe (On Demand)

45.0801-369 3 hrs. cr.
Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middle-class liberal capitalism, individual national events.

Twentieth Century Europe (On Demand)

45.0801-370 3 hrs. cr.
A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems and current European/world problems.

English History to 1660 (F, Even)

45.0801-375 3 hrs. cr.
Rise and development of the English people from the Celts through the English Civil Wars. Major topics examined include the Anglo-Saxon and Norman contributions to English civilization, the changing roles of monarch, and daily life of various social classes.

English History Since 1660 (S, Odd)

45.0801-380 3 hrs. cr.
English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary

democracy, the industrial revolution, the Empire and current position of England in world affairs.

History of Russia to 1725 (F, Odd)

45.0801-385 3 hrs. cr.
History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics, and political institutions.

History of Russia Since 1725 (S, Even)

45.0801-386 3 hrs. cr.
History of Russia since 1725 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik Revolution, and Russian life under Communism.

History of Germany (On Demand)

45.0801-390 3 hrs. cr.
Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich, and post World War II.

The Renaissance and the Reformation 1350-1650 (S, Even)

45.0801-425 3 hrs. cr.
An overview of Europe from 1350 to 1650. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies, and the impact of economic change on daily life.

The Era of the French Revolution and Napoleon (F, Even)

45.0801-435 3 hrs. cr.
An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic, and empire.

European Intellectual History (S, Even)

45.0801-440 3 hrs. cr.
Intellectual, cultural, and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms, and existentialism.

English Constitutional History (On Demand)

45.0801-450 3 hrs. cr.
Development of English political and legal institutions with emphasis on the Anglo-Norman background, the rise of parliament, Tudor absolutism, the Stuart period of revolution, development of the Cabinet, nineteenth century democratization, and evaluations resulting from the crisis of the Twentieth Century.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of the Department Head and the Dean of the School of Arts and Sciences prior to enrollment in the study. Advanced standing in the major field and a minimal grade point average of 3.0 are required.

III. Oriental History Courses

Topics in History (On Demand)

45.0801-298 3 hrs. cr.
Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

History of China (F, Even)

45.0801-415 3 hrs. cr.
Survey of modern China. Emphasis on Chinese society, political developments and relations with the West in the nineteenth and twentieth centuries.

History of Japan (On Demand)

45.0801-430 3 hrs. cr.
Japan's history from the middle of the nineteenth century to the present. Attention is given to Japan's contact with the West.

Seminar in History (F or S)

45.0801-498 3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr.
Individualized project directed by the instructor/advisor with approval of the Department Head and the Dean of the School of Arts and Sciences prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

ARTS AND SCIENCES

COURSES/MATHEMATICS

MATHEMATICS (Math)

Beginning Algebra (F,S)

27.0101-020 3 hrs. cr.
Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

Intermediate Algebra (F,S)

27.0101-030 3 hrs. cr.
Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of C. No credit towards baccalaureate degree.

Intro to College Mathematics (F,S)

27.0101-110 3 hrs. cr.
Basic college mathematics with an introduction to various areas of mathematics such as computer programming, linear programming, set theory, probability and statistics, and geometry. This course satisfies the requirement in mathematics for General Education. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of C.

Math for Elementary Teachers I (F,S)

27.0101-111 3 hrs. cr.
The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 020 with a grade of C. (Will not meet General Education mathematics requirement for nonelementary education majors.)

Trigonometry (Demand)

27.0101-112 3 hrs. cr.
Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: One and one half units of high school algebra, one unit high school geometry, and satisfactory score on the Mathematics Placement Test, or Math 030, or permission of the instructor.

Math for Elementary Teachers II (F,S)

27.0101-120 3 hrs. cr.
A continuation of Math 111. Sets of points, metric and nonmetric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instructor.

College Algebra (F,S)

27.0101-130 3 hrs. cr.
Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations, and the binomial theorem. Prerequisite: One and

one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test, or Math 30 with grade of C.

Finite Mathematics (F,S)

27.0101-131 3 hrs. cr.
Finite mathematics with algebra that is designed for business, social science, and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: One and one half units of high school algebra and satisfactory score on the Mathematics Placement Test, or Math 030 with a grade of C.

Algebra and Trigonometry (F,S)

27.0101-140 5 hrs. cr.
Equivalent of Math 112 and Math 130. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test, or permission of the instructor.

Calculus with Analytic Geometry I (F,S)

27.0101-150 5 hrs. cr.
Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of C, or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.

Calculus with Analytic Geometry II (F,S)

27.0101-250 5 hrs. cr.
Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of C.

Calculus with Analytic Geometry III (F,S)

27.0101-260 5 hrs. cr.
Solid analytic geometry, indeterminate forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of C.

Fundamentals of Mathematical Thought (S)

27.0101-300 3 hrs. cr.
Introduction to modern algebra and analysis. Sets, relations, functions, logical development of number systems, introduction to theory of groups, rings, integral domains and fields. Prerequisite or corequisite: Math 260

Calculus for the Management and Social Sciences (Demand)

27.0101-302 3 hrs. cr.
Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130, or Math 131, or two years high school algebra and satisfactory score on the

Mathematics Placement Test. Will not count toward a major in mathematics.

Elementary Statistics (Demand)

27.0501-310 3 hrs. cr.
Provides a basic statistical background for the various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation, and hypothesis testing, with applications to social, managerial, biological, and physical sciences. Satisfies the general education requirements in mathematics. Prerequisite: two years high school algebra or Math 130. Will not count toward a major in mathematics.

Problems of Teaching Arithmetic in the Elementary Schools

13.1311-312 2 hrs. cr.
(See Education 312 for description.) Will not count toward a major in mathematics.

Differential Equations (S)

27.0101-322 3 hrs. cr.
Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.

Geometry (F,Even)

27.0101-332 3 hrs. cr.
Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean, and nonEuclidean geometries. Prerequisite: Math 250.

Teaching Mathematics in Secondary Schools (S)

13.1311-339 2 hrs. cr.
(See Education 339 for description.) Will not count toward a major in mathematics.

Abstract Algebra (S,Odd)

27.0101-342 3 hrs. cr.
Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains, and fields. Prerequisite: Math 300.

Introduction to Numerical Analysis (S,Even)

27.0301-350 3 hrs. cr.
Error Analysis, solution of polynomial and transcendental equations, co-location polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 115.

Linear Algebra (F)

27.0101-351 3 hrs. cr.
Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

Introduction to Probability (F)

27.0501-361 3 hrs. cr.
Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. Prerequisite: Math 260.

Introduction to Operations Research (F,Odd)

27.0101-371 3 hrs. cr.
Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260.

Intro to Advanced Calculus (S,Even)

27.0101-421 3 hrs. cr.
Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

Numerical Analysis (S,Odd)

27.0301-431 3 hrs. cr.
Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 115.

Mathematical Models (S,Even)

27.0301-452 3 hrs. cr.
Applying mathematics in formulating and analyzing models for real world problems. Topics include linear optimization, game theory, graph models, deterministic and stochastic models, and computer stimulation. Prerequisite: Math 322.

Intro to Mathematical Statistics (S,Odd)

27.0501-462 3 hrs. cr.
Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.

Seminar in Mathematics (Demand)

27.9999-498 1-3 hrs. cr.
For upper division math or related majors. Regular meeting times per week are equal to the number of credit hours determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Independent Study (Demand)

27.9999-499 1-3 hrs. cr.
Course structured by the advisor with approval of the department head and school dean. Prerequisite: advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the advisor, department head, and school dean. See department head for details.

MUSIC (Mus)**Opera or Musical Theatre Performance (S)**

50.0903-102,202,302,402 1 hr. cr.
Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production).

Sight-singing and Ear-training (S)

50.0903-109 2 hrs. cr.
Basic skills and concepts needed for sight-reading, sight-singing, solfege, rhythmic dictation, melodic dictation, and harmonic dictation are introduced, studied, and applied in aural and notated musical examples.

Music Appreciation (F,S)

50.0902-110 3 hrs. cr.
Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Music Theory (F)

50.0904-111 3 hrs. cr.
Basic fundamentals of music with initiation of harmonic analysis and partwriting. Basic course for music majors; others by consent of the instructor.

Music Theory (S)

50.0904-112 3 hrs. cr.
Sequential course in written harmony, including inversion, seventh chords, and nonharmonic tones. Prerequisite: Mus 111.

Class Piano (F)

50.0903-113 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material varies in accordance with educational purpose. No prerequisite.

Class Piano (S)

50.0903-114 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material studied varies in accordance with educational purpose. Prerequisite: Mus 113 or equivalent.

Concert Chorale (F,S)

50.0903-121,122,321,322 2 hrs. cr.
Open to all college students. Preparation and performance of great choral works. Prerequisite: permission of the instructor. Each class may be repeated one time for credit.

Opera and Musical Theatre (F)

50.0903-133 2 hrs. cr.
History, production, and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last ten weeks focusing upon the particular musical or light opera selected for production the spring semester of that year.

Musical Theatre and Opera (F)

50.0903-135 2 hrs. cr.
History, production, and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last ten weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

Jazz Band (F,S)

50.0903-141,142,341,342 1 hr. cr.
A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: permission of the instructor. Each class may be repeated one time for credit.

Orchestra (F,S)

50.0903-151,152,351,352 2 hrs. cr.
Open to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: consent of instructor. Each class may be repeated one time for credit.

Collegiate (F,S)

50.0903-161,162,361,362 1 hr. cr.
Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: audition. Each class may be repeated one time for credit.

Brass Choir (F,S)

50.0903-171,172,371,372 1 hr. cr.
Open to all students with band instrument experience. Performance of literature for brass ensemble. Two meetings per week. Each class may be repeated one time for credit.

Conducting Techniques (F)

50.0903-182 2 hrs. cr.
Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 109, Mus 112.

Marching Band (F)

50.0903-191,391 2 hrs. cr.
Open to all qualified students with high school band experience. A study and practice of the

ARTS AND SCIENCES

COURSES/MUSIC

fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: permission of instructor. Each class may be repeated one time for credit.

Concert Band (S)

50.0903-192,392 2 hrs. cr.
Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: permission of instructor. Each class may be repeated one time for credit.

Sight-singing and Ear-training (F)

50.0903-210 2 hrs. cr.
Sequential course in using the skills and concepts in sight-singing and ear-training. Sight reading of melodies of increasing difficulty. Ear-training emphasis will be in harmonic dictation. Prerequisite: Mus 109.

Music Theory (F)

50.0904-211 3 hrs. cr.
Modulation, diatonic, seventh chords, altered chords, advanced part-writing procedures. Prerequisite: Mus 112.

Music Theory (S)

50.0904-212 3 hrs. cr.
Secondary dominant chords, augmented triads and sixth chords, advanced modulation, introduction to contemporary techniques. Prerequisite: Mus 211.

Class Piano (F)

50.0903-213 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship, and elementary repertoire. Material varies in accordance with educational purpose. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background. Prerequisite: Mus 114 or equivalent.

Class Piano (S)

50.0903-214 1 hr. cr.
Reading skills, fundamental piano technique, basic musicianship and elementary repertoire. Material varies in accordance with educational purpose. Open to all students, but designed primarily for the music major requiring keyboard competency who has little or no piano background. Prerequisite: Mus 213 or equivalent.

INSTRUMENTAL TECHNIQUES (F,S)

String Techniques (F)

50.0903-231 1 hr. cr.

Brass Techniques (S)

50.0903-232

Percussion Techniques (F) (Not open to

percussion majors)

50.0903-233

Woodwind Techniques (S)

50.0903-234

Class instruction in the orchestral and band instruments, including a study of methods and materials to be used in the teaching of beginning students.

Recital Attendance (F,S)

50.0903-240 0 hrs. cr.
Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.

Selected Topics in Music (Demand)

50.099-298 1-3 hrs. cr.
Study of special topics in music not included in another course. Prerequisite: permission of instructor.

Vocal Techniques (F,S)

50.0903-310 2 hrs. cr.
Class instruction in tone production of the human voice and the correct usage of vowels and consonants for singing. Skill is developed so that each student will be able to sing individually demonstrating correct tone production. Includes vocal methods and solo materials.

History of Music (F)

50.0902-311 3 hrs. cr.
General survey of history of music from Greek period to 18th century. Prerequisite: Mus 212.

History of Music (S)

50.0902-312 3 hrs. cr.
From 18th century to the present. Score reading required. Prerequisite: Mus 212.

Music for Elementary School (F,S)

13.1312.332 3 hrs. cr.
Methods of teaching music in the elementary classroom and a study of materials to be used.

Music for the Elementary Grades (Demand)

13.1312.333 2 hrs. cr.
Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

Marching Band Methods (F)

50.0903-411 1 hr. cr.
Procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band including study of musical repertoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band, prior to being enrolled in marching band while taking the course.

Form and Analysis (F)

50.0904-420 3 hrs. cr.
Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212, or permission of the instructor.

Orchestration (S)

50.0904-431 3 hrs. cr.
Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212, or permission of instructor.

Music in the Public School (F)

13.1312.432 2 hrs. cr.
Acquaints music education majors with problems of administration and supervision of the school music program through high school level. Content includes the place of music in the school program, music equipment, schedules, budget, instructional problems, and public relations in music.

Advanced Conducting Techniques (F)

50.0903-444 2 hrs. cr.
Conducting skills, including irregular beat patterns, advance technical problems and methods developed for solving them. Prerequisite: Mus 182.

Senior Recital

50.0903-450 0 hrs. cr.
A solo recital is required of all music majors.

Seminar in Music (Demand)

50.0999-498 1-3 hrs. cr.
For upper division music majors or related majors. Topics and methods not included in other courses. Permission of the instructor is required.

Independent Study (Demand)

50.0499-499 1-3 hrs. cr.
Structured by the advisor with approval of the department head and school dean. Prerequisite: advanced standing in the major field with a grade point average of 3.0. Registration must be approved by the advisor, department head, and school dean.

Applied Music — (Private Lessons)

Major in: Brass, Keyboard*, Percussion, String, Woodwind, and Voice. All major applied music offerings may be repeated one time for credit.

50.0903-207 2 hrs. cr.
50.0903-208 2 hrs. cr.
50.0903-407 2 hrs. cr.
50.0903-408 2 hrs. cr.
Elective** in the six areas listed above under major.

50.0903-103 1 hr. cr.
50.0903-104 1 hr. cr.
50.0903-105 1 hr. cr.
50.0903-106 1 hr. cr.
50.0903-203 1 hr. cr.
50.0903-204 1 hr. cr.
50.0903-305 1 hr. cr.
50.0903-306 1 hr. cr.
50.0903-107 2 hrs. cr.
50.0903-108 2 hrs. cr.
50.0903-307 2 hrs. cr.
50.0903-308 2 hrs. cr.

COURSES/PARALEGAL, PHILOSOPHY, PHYSICS

PARALEGAL (PLS)

Introduction To Legal Assistance (F)

22.0103-201 3 hrs. cr.
American legal system with emphasis on the roles, skills, and tasks of the paralegal. Topics include professional ethics, client interviewing, and legal analysis.

Topics In Paralegal Studies (On Demand)

22.0199-298 3 hrs. cr.
Special topics of current interest to the student. Subjects are changed each semester. Students are encouraged to submit areas of interest to the Social Sciences Department.

Business Law I (F,S)

06.0101-301 3 hrs. cr.
(See GB 301).

Business Law II (F,S)

06.0101-302 3 hrs. cr.
(See GB 302).

Legal Research (F, Even, S, Even)

22.0199-302 3 hrs. cr.
Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

Property (S, Odd)

22.0199-311 3 hrs. cr.
Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as deeds, contracts, and leases.

Civil Litigation (S, Odd)

22.0199-312 3 hrs. cr.
Process of civil litigation from filing to appeal including rules for instituting and conducting lawsuits before federal and state courts, rules of evidence and procedure, and the preparation of legal forms pertinent thereto.

Family Law (F, Odd)

22.0199-320 3 hrs. cr.
Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse, and termination of parental rights.

Wills, Trusts, And Probate (F, Odd)

22.0199-401 3 hrs. cr.
Law of wills, trusts and intestate succession; includes analysis of the administration, probate of estates and the preparation of legal forms pertinent thereto.

Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr.
(See PSc 431).

Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr.
(See PSc 432).

Internship (Demand)

22.0119-491 3 hrs. cr.
An applied internship of 135 hours done under the direct supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials), as approved by the department head and the school dean.

Senior Seminar (S, Even)

22.0119-498 3 hrs. cr.
Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hours of paralegal studies or consent of instructor.

Independent Study

22.0119-499 1-2-3 hrs. cr.
Study and research by the student under the direction and supervision of the instructor/advisor with prior approval by the Department Head and Dean of Arts and Sciences. Prerequisites: advanced standing in the major field and a minimum GPA of 3.0.

PHILOSOPHY (Phil)

Introduction to Philosophy (F)

38.0101-201 3 hrs. cr.
Comparative survey of major types of philosophy, and of representative problems in philosophy.

Ethics (S)

38.0101-212 3 hrs. cr.
Exploration of the problem of value, personal moral attitudes and standards, comparative survey of major ethical systems, and evaluation of the chief ethical struggles in contemporary society.

Topics in Philosophy (Demand)

38.0101-298 3 hrs. cr.
Studies in a variety of philosophical subjects. Topic open.

Projects Research

38.0101-300 3 hrs. cr.
Introduces advanced students in the Honors Program to multi-disciplinary critical analysis of research problems. (Cannot be used for General Education credit.)

Comparative Religion (Demand)

38.0101-320 3 hrs. cr.
A philosophical and historical survey, emphasizing the world's major living religions.

PHYSICS (Phys)

Fundamentals of Physical Science (F,S)

40.0101-100 5 hrs. cr.
Basic concepts in the fields of physics, chemistry, geology, and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Lecture and demonstration periods. Prerequisite: Math 20 with a minimum grade of C or qualified for Math 110 on the MMPT.

Physics for Teachers 7-9 (Summers)

40.0801-120 3 hrs. cr.
Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hours of lecture and one 2-hour lab recitation class per week. Prerequisite: Math 130 or equivalent.

Essential Skills for Physics (F,S)

40.0801-140 3 hrs. cr.
Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. This course is recommended for students who have not had a high school physics course or who feel that their background in physics is inadequate. Three hours of lecture per week. Prerequisite: Math 140

Elementary College Physics I (F)

40.0801-151 5 hrs. cr.
Mechanics, properties of matter, heat, wave motion, sound and electrical circuits. Four hours of lecture and one 2-hour laboratory per week. Prerequisite: Math 140.

Elementary College Physics II (S)

40.0801-152 3 hrs. cr.
Magnetism, optics, relativity, radioactivity, nuclear reactions and further study of mechanics including rotational dynamics. Two hours of lecture and one 2-hour laboratory per week. Prerequisite: Phys. 151.

Introduction to Meteorology

40.0401-180 3 hrs. cr.
Principles basic to the understanding of weather and climate. Three lectures per week. Prerequisite: Phys. 100 or equivalent. (Does not count toward a physics major.)

ARTS AND SCIENCES

COURSES/POLITICAL SCIENCE

General Physics I (F,S)

40.0801-250 5 hrs. cr.
An introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies, and a study of heat and temperature. Four hours of lecture and one, three-hour laboratory-recitation class per week. Prerequisite: Math 150 and Physics 140 strongly recommended.

General Physics II (F,S)

40.0801-260 5 hrs. cr.
Electricity, magnetism, waves, and geometrical and physical optics. Four hours of lecture and one three-hour laboratory/recitation class per week. Prerequisite: Phys 250 and Math 250.

Selected Topics in Physical Sci (F,S)

40.0101-298 1-3 hrs. cr.
Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Astronomy (Demand)

40.0201-300 3 hrs. cr.
The solar system. Kepler's laws, celestial coordinates and observing. Hertzsprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies, and cosmology. Three lectures per week. (Does not count toward a Physics Major)
Prerequisite: Physics 100 or equivalent and one year of high school algebra.

Modern Physics (F)

40.0801-301 4 hrs. cr.
Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics, and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Statics (S)

40.0801-312 3 hrs. cr.
Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: 250. Corequisite: Math 260.

Classical Mechanics (S,Odd)

40.0801-322 3 hrs. cr.
Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, central force motion, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hours of lecture per week. Prerequisite: Phys 250. Corequisite: Math 322 or permission of instructor.

Thermal Physics (S,Even)

40.0801-341 4 hrs. cr.
Temperature, transfer of heat, laws of thermodynamics, entropy, enthalpy, reversibility and

irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hours of lecture per week. Prerequisite: Math 260 and Phys 260.

Electronic Circuits (S)

40.0801-372 4 hrs. cr.
Ohm's law, Kirchhoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, source-free RL and RC circuits, RLC circuits. Complex variables and their application to steady-state ac circuits. Two 3-hour lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260 Corequisite: Math 260.

Intermediate Physics Laboratory (F,Odd)

40.0801-381 3 hrs. cr.
Experiments in classical and modern physics, including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hour laboratories per week. Prerequisite: Phys. 301 or permission of instructor.

Electricity and Magnetism (F,Odd)

40.0801-401 4 hrs. cr.
Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hours of lecture per week. Prerequisites: Math 260 and Phys. 260.

Quantum Mechanics (Demand)

40.0801-452 3 hrs. cr.
Time independent Schrodinger equation, eigenfunctions, expectation values, differential operators, perturbation theory, multi-electron atoms and applications to solid state physics. Three hours of lecture per week. Prerequisite: Phys. 301 and Math 322.

Selected Topics in Physics and Engineering (Demand)

40.0801-480 3 hrs. cr.
One or more of the following topics for further study: Solid State Physics, Optics, Nuclear Physics, Advanced Mechanics, Circuit Analysis, Thermodynamics, Fluid Mechanics Heat Transfer, and Mechanics of Materials. Open to students having a minimum of 18 hours of physics and permission of the instructor.

Seminar (F,S)

40.0801-498 1-3 hrs. cr.
Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the sec-

ondary level. Open to students having a minimum of 18 hours of physics and permission of the instructor.

Independent Study (F,S)

40.0801-499 1-3 hrs. cr.
Course structured by the advisor with approval of the department head. Prerequisite: Advanced standing with a grade point of 3.0 in the major field. Registration must be approved by the advisor, department head, and school dean.

POLITICAL SCIENCE (PSc)

Government: U. S. State, Local (F,S)

45.1001-120 3 hrs. cr.
Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A General Education requirement for all Bachelor of Arts and Bachelor of Science degrees.

Topics In Political Science (On Demand)

45.1001-298 3 hrs. cr.
Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors changed each semester. Students are encouraged to suggest possible course topics to the political science faculty.

Introduction To Political Science Methods (On Demand)

45.1001-300 3 hrs. cr.
The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in non-library types of research projects.

Political Parties And Elections (F, Even)

45.1001-301 3 hrs. cr.
Analysis of the origins, structure, and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

Public Opinion And Pressure Groups (S, Odd)

45.1001-302 3 hrs. cr.
Origins, impact, and measurement of public opinion. Scope, nature, and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

Law, Society, And Citizenship (On Demand)

45.1001-310 2 hrs. cr.
American legal system with special attention to the organization, methods, processes, and behaviors of the judiciary.

The American Presidency (F, Odd)

45.1001-311 3 hrs. cr.
Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

The Legislative Process (S, Even)

45.1001-312 3 hrs. cr.
Problems of representation, organization of the legislature, participation, and proposals for improved organization. Emphasis on the United States Congress.

State Government (S, Even)

45.1001-320 3 hrs. cr.
General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.

International Relations (F, Even)

45.0901-321 3 hrs. cr.
Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

International Law (S, Odd)

45.0901-322 3 hrs. cr.
Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties.

Comparative Government: Europe (F, Odd)

45.1001-331 3 hrs. cr.
An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

Comparative Government: Latin America (S, Even)

45.1001-332 3 hrs. cr.
Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

Municipal Government (F, Odd)

45.1001-342 3 hrs. cr.
Structure, legal status, functions and organization of city, town, and village government in the United States.

Political Theory (F, Odd)

45.1001-411 3 hrs. cr.
Selected Western political philosophies from early recorded history through the present time.

Contemporary Political Thought (S, Even)

45.1001-412 3 hrs. cr.
Twentieth century political ideas.

United States Constitutional History

45.0801-420 3 hrs. cr.
(See History 420). Not for Political Science credit if the student also takes PSC 431 or 432.

Public Administration (On Demand)

45.1001-421 3 hrs. cr.
Administrative aspects of government; surveys the major sub-fields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision-making, personnel, public budgeting and finance, policy analysis and program evaluation, and administrative law. Prerequisite: junior standing or consent of instructor.

Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr.
Political and legal aspects of Supreme Court decision-making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government, and the 1st Amendment rights of freedom of expression.

Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr.
Legal issues concerning the 1st Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process and equal protection clauses, and the rights of the accused in criminal cases.

English Constitutional History

45.0801-450 3 hrs. cr.
(See History 450)

Seminar in Political Science (On Demand)

45.1001-498 3 hrs. cr.
Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hours of upper division political science.

Independent Study (F, S)

45.1001-499 1-2-3-4 hrs. cr.
For students who wish to do an in-depth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an advisor from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: junior or senior status and an overall cumulative grade point average of 3.0 or better. Registration must be approved by the department head and the school dean.

SOCIOLOGY (Soc)

Introduction To Sociology (F, S)

45.1101-110 3 hrs. cr.
A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a General Education requirement for either a Bachelor of Arts or Bachelor of Science degree.

Marriage And Family (F)

45.1101-121 3 hrs. cr.
Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood, and the development of family relationships throughout the life cycle.

Introduction To Anthropology (F)

45.1101-152 3 hrs. cr.
Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society.

Social Problems (F, S)

45.1101-210 3 hrs. cr.
Causes and consequences of economic, political, and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions is also included. Prerequisite: Soc. 110.

Topics In Sociology (On Demand)

45.1101-298 3 hrs. cr.
Special sociology topics of current interest. Subjects and instructors may vary each semester. Students are encouraged to submit areas of interest to the Social Sciences Department.

Computer Applications In the Social Sciences

45.1101-300 3 hrs. cr.
An analysis of computers and their applications in the Social Sciences. Focus on pre-existing software designed for use by social science disciplines. Emphasis on data entry, analysis, and interpretation of printouts. Advisor consent required.

Sociology Of Religion (F)

45.1101-301 3 hrs. cr.
Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion, and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

ARTS AND SCIENCES

COURSES/SOCIOLOGY

Sociology Of Aging (S)

45.1101-306 3 hrs. cr.
A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly, and accumulated data from gerontological research. Such topics as life changes, retirement, and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

Social Class And Inequality (F)

45.1101-311 3 hrs. cr.
Examination of differences in power, prestige and influence. Analysis of the impact of social inequality on people's lives, especially in the United States. Theoretical explanations for the variations in social class. A practical investigation of social class is usually incorporated in the course requirements. Prerequisite: Soc 110.

Juvenile Delinquency (S)

45.1101-312 3 hrs. cr.
Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs and the juvenile justice and corrections system. Prerequisite: Soc 110.

Sociology Of Work And Leisure (S)

45.1101-322 3 hrs. cr.
Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

Introduction To Social Work (F)

45.1101-331 3 hrs. cr.
Philosophical and historical development of social work as a professional career. Focuses on role of the social worker, within the various practice settings. Will entail field trips and guest speakers.

Social Work Practice (S)

45.1101-332 3 hrs. cr.
Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases, and practical experience in a social agency or community program providing human services. Prerequisite: Soc 331 and junior standing.

Social Psychology (F)

42.1601-341 3 hrs. cr.
(See Psy 341)

Comparative Cultures (S)

45.1101-342 3 hrs. cr.
A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary pre-industrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Prerequisite: Soc 110 or Soc 152 or consent of instructor.

Criminology (F)

45.1101-351 3 hrs. cr.
Social and legal concept of crime. Review of measurements and data of crime(s) are reviewed and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Sociology Of Health Care (S)

45.1101-354 3 hrs. cr.
A review of certain sociological data which affect people's health status, health care, and health outlook. Focus on aging, social stratification, demographics, and economic issues relevant to health status. A review of the history, change, and cross cultural comparisons of health care. Prerequisite: Soc 110.

The Study Of Populations (F)

45.1101-361 3 hrs. cr.
Changes in human population through an analysis of birth rates, death rates, and migrations. Social demographic analysis of census and independent research data. Various population theories are applied to national and world situations. Concepts of overpopulation, minority groups, and aging are analyzed. Prerequisite: Soc 110.

Deviant Behavior (S)

45.1101-362 3 hrs. cr.
Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

Minority Groups And Race Relations (S)

45.1101-382 3 hrs. cr.
Racial and cultural groups focusing on the conditions of groups within the United States. Analyzes several general theories or explanations for minority-dominant relations. Includes a study of legislation affecting minorities in the U. S. Prerequisite: Soc 110.

Penology And Corrections (F)

45.1101-391 3 hrs. cr.
Philosophy, history, and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models, and community treatment. Prerequisite: Soc 110.

The Community - Rural And Urban (S)

45.1101-402 3 hrs. cr.
Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft- gesellschaft theories as they pertain to national, rural, urban, ethnic, and subcultural communities and how these intertwine in contemporary societies. Prerequisite: 9 hours of Sociology.

Sociological Theory (F)

45.1101-421 3 hrs. cr.
Classical and contemporary theory placed in historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hours of sociology.

Sociological Research Methods (S)

45.1101-432 3 hrs. cr.
Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hours of sociology.

Mass Society And Social Movements (F)

45.1101-445 3 hrs. cr.
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hours of sociology or consent of instructor.

Internship In Sociology (On Demand)

45.1101-496 1-8 hrs. cr.
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. Prerequisites: 15 hours of sociology, junior standing or above, and approval of a departmental committee.

Seminar In Sociology (On Demand)

45.1101-498 3 hrs. cr.
For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue

in-depth research, and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hours of sociology (or) consent of instructor.

Independent Study (On Demand)

45.1101-499 1-2-3 hrs. cr.
Structured by the advisor with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Registration in the course must be approved by the department head and the dean.

THEATRE (Th)

Theatre Performance (F,S)

50.0501-101, 102, 201, 202, 301, 302, 401, 402 1 hr. cr.

The Performance of a role or service as stage manager for a theatre production which has met department standards. A student may accumulate up to 5 hours of credit. Credit is applied after departmental evaluation at the end of each semester.

Theatre Appreciation (F,S,S)

50.0501-110 3 hrs. cr.
A basic approach to the what, why, and how of theatre. Sessions deal with dramatic form and style of drama, as well as physical aspects of production. Satisfies 3 semester hours of General Education requirement in humanities and fine arts.

Theatre Laboratory (F,S)

50.0501-121, 122, 221, 222, 321, 322 2 hrs. cr.
A laboratory devoted to mounting the theatre's season. Meets two hours in sequence twice a week.

Theatre Technology (S,Even)

50.0501-142 3 hrs. cr.
Scenery construction techniques and terminology, technical drawing as applied to theatre design, stage lighting techniques, sound techniques, and stage rigging.

Summer Theatre Production (Demand)

50.0501-201 6 hrs. cr.
Students will be active members of MSSC Repertory Theatre Company serving as actors, designers, and technicians in varied theatre fare. Month of June devoted to preparation, and four weeks of 16-20 performances in Jn (S,Even)

Oral Interpretation (S,Even)

50.0501-212 3 hrs. cr.
Principles and techniques for the public presentation of oral reading. Selection, analysis, and preparation of different types of literature with emphasis on platform presentation of prose and Readers' Theatre.

Speech for Stage (F,Odd)

50.0501-231 1 hr. cr.
A lecture-demonstration experience designed to develop or improve student's projection, phrasing, emphasis, and vocal resonance.

Costume Technology (F,Odd)

50.0405-232 1 hr. cr.
Basic skills for the stage are developed in areas of sewing, use of patterns and the selection and use of fabrics. Two class hours in sequence.

Stage Make-up (F,Odd)

50.0501-233 1 hr. cr.
Basic techniques in design and application of stage make-up. Surveys categories of professional make-up as well as sources and costs of materials. Two class hours in sequence.

Acting I (F,Odd)

50.0501-241 3 hrs. cr.
Basic acting techniques for development of poise and confidence on stage; stage movement and pantomime; character analysis and creation.

Exploration in Theatre (Demand)

50.0501-298 3 hrs. cr.
Concentrated study on a variety of selected theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

Stage Lighting (Demand)

50.0499-320 3 hrs. cr.
Lighting design approached artistically. The use of light in art, television, theatre, and motion pictures. Prerequisite: Th 142.

History of the Theatre (F,Even)

50.0501-331 3 hrs. cr.
Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management, and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature.

History of the Theatre (S,Odd)

50.0501-332 3 hrs. cr.
Plays, playwrights, and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.

Acting II (F,Even)

50.0501-341 3 hrs. cr.
The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Acting I or permission of instructor.

Directing I (F,Even)

50.0501-351 3 hrs. cr.
A basic approach to theatre management and organization. Techniques and procedures in play selection and mounting a production. Analysis of conventional dramatic structure and exploration of directorial preparation of scripts.

Stage Costume and Design (S,Even)

50.0405-362 3 hrs. cr.
Survey of clothing styles and social manners in western civilization with emphasis upon theory and practical application as it relates to design of the stage costume.

Directing II (S,Odd)

50.0501-372 3 hrs. cr.
Study of the skill and role of the director, script and analysis, casting, production administration, and director-actor relationships. Actual directing experience or a related directing project.

Acting III (S,Even)

50.0501-422 3 hrs. cr.
Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341 or consent of instructor.

Creative Dramatics (Demand)

50.0501-431 3 hrs. cr.
Methods and techniques of teaching dramatic improvisation through the exploration of literature appropriate for dramatic presentation with an emphasis on story telling.

Stage Design (F,Odd)

50.0405-441 3 hrs. cr.
Foundations of scenic design, sketching, rendering, and scene painting techniques. Set design as related to various styles of drama.

Theatre Studies (Demand)

50.0501-498 3 hrs. cr.
Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by advisor, department head, and school dean.

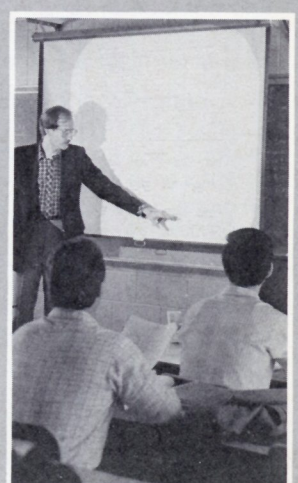
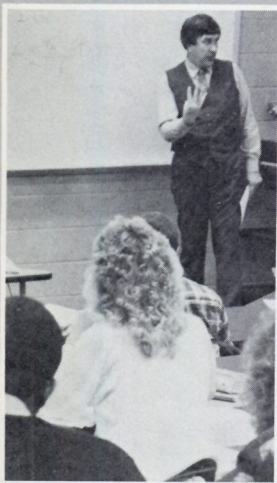
Independent Study in Theatre (F,S)

50.0501-499 1-3 hrs. cr.
Structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field with GPA of 3.0. Registration in the course must be approved by advisor, department head and school dean.

THE SCHOOL OF BUSINESS ADMINISTRATION



The typist, 1939



BUSINESS ADMINISTRATION

SCHOOL DEAN:

Robert C. Brown

DEGREES AND MAJORS

Bachelor of Science in Business Administration

Accounting

Economics and Finance

General Business

Marketing and Management

Bachelor of Science in Education

Business Education as a single

teaching field

Business Education as one of two

teaching fields

Bachelor of Science

Management Technology

Associate of Science

Accounting

General Business

Office Administration

One-year Certificate of Achievement

Secretarial Science

Concentration

Entrepreneurship

ROLE:

The School of Business Administration's role is to provide the necessary managerial and administrative education to prepare the student for responsible leadership roles in business and society.

As a professional school, the School of Business Administration strives to prepare students to perform successfully in the complex world of business. All academic programs within the school reflect the philosophy that business is an integral part of a dynamic economic, social, and political environment. The pervasive character of business and economic variables in contemporary American society makes study of business principles desirable, both as a separate degree area and as a service to other degree and non-degree students.

The ability to compete in this environment requires a variety of skills, including the ability to express one's self competently in both written and oral forms and to use logical and critical thinking techniques in one's approach to problem solving.

OBJECTIVES:

The objectives of the School of Business Administration are:

1. to provide a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates;
2. to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
3. to provide a faculty committed to teaching excellence, community service, and research;
4. to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
5. to interact with the business community concerning their educational needs and to serve those needs once they are ascertained.

STUDENT ORGANIZATIONS

The National Association of Accountants Student Affiliate Organization is open to accounting students who wish to come in contact with practicing accountants. Students may attend regular meetings with the local chapter, as well as student meetings.

Future Secretaries Association is open to all students with an interest in office administration and business education and is sponsored by Professional Secretaries International. Students raise money by working on various typing projects.

Pi Omega Pi is an honorary Business Education fraternity open to students with three semesters or 15 hours credit in business and education and a 3.0 grade point average.

Omicron Delta Epsilon is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 9 hours in economics, with a 3.0 in the economics courses.

The Phi Beta Lambda organization is based on a definite set of goals including development of competent, aggressive business leadership; creation of more interest and understanding of American business enterprise; and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to

all business students and serves as a stepping stone to a prominent place in business.

Students in Free Enterprise (SIFE) is a non-profit corporation organized to promote the free enterprise system. The group has participated in national competitions, finishing as high as second on two different occasions.

SMALL BUSINESS DEVELOPMENT CENTER

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

1. THE SOUTHERN BUSINESS AND ECONOMIC REVIEW

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Review is in its fourth year of publication. The Bureau also maintains a data bank of economic statistics which is available to local business people.

2. SMALL BUSINESS INSTITUTE

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

3. BUSINESS AND ECONOMIC LECTURE SERIES

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and at night. J. Peter Grace and William S. Rukesyer are two of the prominent speakers who have appeared in the series.

4. MANAGEMENT DEVELOPMENT CENTER

The School of Business Administration has established a Management Development

Center to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing and/or coordinating various seminars for the local businesses.

5. CENTER FOR ENTREPRENEURSHIP

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business start-ups by providing student consultants and faculty evaluation of business plans.

CORE REQUIREMENTS:

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major:

Business Administration Core Requirements:

	Semester	Hours
Acct 201 Principles of Accounting I	3	
Acct 202 Principles of Accounting II	3	
Econ 201 Principles of Economics-Macro	3	
Econ 202 Principles of Economics-Micro	3	
GB 237 Managerial Data Processing	3	
GB 301 Business Law I	3	
GB 320 Business Communications	3	
GB 321 Business Statistics I	3	
MM 300 Principles of Marketing	3	
MM 350 Principles of Management	3	
Econ 350 Financial Management	3	
MM 452 Business Policy	3	
Required Elective*	3	
Choose one from:		
GB 302 Business Law II		
Econ 300 Money and Banking		
GB 322 Business Statistics II		
MM 441 Organizational Behavior		
GB 337 Hardware/Software for Business Applications		

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*The required elective may not be "double-counted" as part of the major requirements.

Minor in Business:

Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
GB 237 Managerial Data Processing	3

Econ 202 Principles of Economics-Micro*	3
Econ 350 Financial Management	3
MM 300 Principles of Marketing	3
MM 350 Principles of Management	3

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*Econ 201 should be taken as a General Education requirement.

ACCOUNTING

FACULTY:

Barrett, Cunningham, Finke, Goode, Huey, Paapanen

Majors in accounting are available under both the B.S.B.A. degree and the A.S. degree. The B.S.B.A. accounting major course of study is designed to prepare the student to sit for the C.P.A. examination or to enter private or governmental accounting in a managerial position.

The A.S. accounting major course of study is designed to prepare the student for bookkeeping tasks which are a part of the accounting function. A graduate with this degree would work at the first level in private accounting or serve as a clerk in a CPA firm.

Requirements for a Bachelor of Science in Business Administration with a major in Accounting:

	Semester	Hours
General Education (Page 41)	46	
Business Core	39	
Accounting Major:	23	
Acct 312 Intermediate Accounting I	4	
Acct 322 Intermediate Accounting II	4	
Acct 310 Cost Accounting	3	
Acct 402 Advanced Accounting	3	
Acct 401 Tax Accounting	3	
Acct 411 Auditing	3	
Acct 420 Accounting Theory	3	
Electives	16-22	

124

Requirements for an Associate of Science with a major in Accounting:

	Semester	Hours
General Education Requirements (Page 41)	24	
Accounting Major:	40	
GB 320 Business Communications	3	
GB 115 Business Math/Microcomputers	3	

Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
Acct 312 Intermediate Accounting I	4
Econ 201 Principles of Economics-Macro	3
Econ 202 Principles of Economics-Micro	3
GB 237 Managerial Data Processing	3
Acct 310 Cost Accounting	3
MM 350 Principles of Management	3
GB 301 Business Law I	3
Acct 401 Tax Accounting	3
Elective: (Must be selected from Business Law II, Auditing, or Business Statistics I)	3

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Suggested Orders of Study

Bachelor of Science in Business Administration

Major Code 0502

Accounting Major

Freshman Year

Course	Hours
1st Semester	
Eng 101 Composition	3
Math 131 Finite Math	3
PSc 120 Gov't: U.S., State, & Local	3
HPER 101 Intro to P.E.	2
Elective [GB 115 Business Math/Microcomputers]	3
Psy 120 College Orientation	1
2nd Semester	15
Eng 102 Composition (Eng 101)	3
Gen Ed [Bio 101 General Biology or equivalent]	4
Gen Ed [Comm 100 Oral Comm]	3
Gen Ed [Humanities: Fine Arts]	3
HPER 160 Personal Health	2

Sophomore Year

Course	Hours
1st Semester	
Acct 201 Principles of Accounting I (Math 131)	3
Econ 201 Principles of Economics-Macro*	3
GB 237 Managerial Data Processing (GB 115 or Microcomputer Familiarity)	3
Gen Ed [Hist 110, or 120, U.S. History]	3
Gen Ed [Humanities: Literature]	3
2nd Semester	15
Acct 202 Principles of Accounting II (Acct 201)	3
Econ 202 Principles of Economics-Micro*	3
Gen Ed [Phys 100 Fundamentals of Physical Science]	5
Gen Ed [Humanities: Fine Arts]	3
Elective	3
*(Math 131)	17

BUSINESS ADMINISTRATION

ECONOMICS AND FINANCE

Junior Year

1st Semester

Acct 312	Intermediate Accounting I (Acct 202)	4
Acct 310	Cost Accounting (Acct 202, GB 237)	3
GB 301	Business Law I	3
MM 350	Principles of Management	3
MM 300	Principles of Marketing (Econ 201, 202)	3

16

2nd Semester

Acct 322	Intermediate Accounting II (Acct 312)	4
Acct 401	Tax Accounting (Acct 202)	3
GB 302	Business Law II	3
GB 320	Business Communications (Eng 102)	3
GB 321	Business Statistics (Math 131, GB 237)	3

16

Senior Year

1st Semester

Acct 411	Auditing (Acct 322)	3
Econ 350	Financial Management (Econ 202, Acct 202, GB 237)	3
Electives	[Government Accounting, 3 hours]	9

15

2nd Semester

Acct 402	Advanced Accounting (Acct 322)	3
Acct 420	Accounting Theory (Acct 322)	3
MM 452	Business Policy (Econ 350, MM 300, MM 350)	3
Electives	[GB 237, Selection of Hardware/Software for Business - 3 hours] (GB 337 or CIS 115 and 120)	6

15

() Prerequisites

[] Dept Recommendations

Associate of Science

Major Code 5002

Accounting Major

Freshman Year

1st Semester

Course		Hours
Acct 201	Principles of Accounting I	3
Eng 101	Composition	3
Gen Ed	[PSc 120 or Hist 110]	3
GB 115	Business Math/Microcomputers	3
Math 30	Intermediate Algebra or Math 110 [Math 131]	3
Psy 120	College Orientation	1

16

2nd Semester

Acct 202	Principles of Accounting II (Acct 201)	3
Gen Ed	[Psy 100 or Soc 110]	3
Comm 100	Oral Communications	3
Gen Ed	(Humanities or Fine Art)	3
GB 320	Business Communications	3
HPER 101	Intro to P.E.	2

17

Sophomore Year

1st Semester

Acct 312	Intermediate Accounting (Acct 202)	4
GB 237	Managerial Data Processing (GB 115 or Microcomputer Familiarity)	3
GB 301	Business Law I	3

Gen Ed	[Science]	4-5
Econ 201	Principles of Economics-Macro*	3

17-18

2nd Semester

Acct 401	Tax Accounting (Acct 202)	3
MM 350	Principles of Management	3
Econ 202	Principles of Economics-Micro*	3
Acct 310	Cost Accounting (Acct 202) (GB 237)	3
Elective in Business	[Acct 411, GB 302 GB 321]	3

15

() Prerequisite
[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 302 Matthews Hall
Phone: 625-9319

ECONOMICS AND FINANCE

FACULTY:

Bradshaw, Eberhardt, Hamilton, Jaswal, Larimore, Leitle, Marion, Miller

The B.S.B.A. Economics and Finance major course of study is designed to prepare graduates for managerial positions in financial institutions, corporate research, forecasting, government, and other public and private sector positions, as well as for graduate study.

Requirements for a Bachelor of Science in Business Administration with a major in Economics and Finance:

Semester Hours

General Education (Page 41)	46
Business Core (Page 105)	39
Economics and Finance Major:	18

(1) Required: 12

Econ 300 Money and Banking

Econ 401 Microeconomic Analysis

Econ 402 Macroeconomic Analysis

Econ 411 Investments

(2) Plus 2 courses from the following: 6

Econ 302 Economic Growth and Development

Econ 312 Economic Resources

Econ 412 Urban and Regional Economics

Econ 498 Seminar in Economics and Finance

GB 322 Business Statistics II

Hist 315 Economic History of the U.S.

Geo 222 Economic Geography

Econ 330 Principles of Insurance

Electives 21-27

124-130

Suggested Order of Study

Bachelor of Science in Business Administration

Major Code 0504

Economics and Finance Major

Freshman Year

1st Semester

Course		Hours
Math 131	Finite Math	3
Eng 101	Composition	3
PSc 120	Gov't: U.S., State & Local	3
[GB 115	Business Math/Microcomputers]	3
Psy 120	College Orientation	3
Elective		1

16

2nd Semester

Eng 102	Composition (Eng 101)	3
Hist 110 or 120	U.S. History	3
Gen Ed	[Comm 100 Oral Comm]	3
Gen Ed	[Fine Arts]	3
Gen Ed	[Fine Arts]	3
HPER 101	Intro to P.E.	2

17

Sophomore Year

1st Semester

Acct 201	Principles of Accounting I (Math 131)	3
Econ 201	Principles of Economics-Macro	3
Gen Ed	[Bio 100 or equiv.]	4
Gen Ed	[Humanities: Literature]	3
HPER 160	Personal Health or Physical Activities	2

15-16

2nd Semester

Acct 202	Principles of Accounting II	3
Econ 202	Principles of Economics-Macro	3
Gen Ed	[Phys 100 or equiv.]	5
GB 237	Managerial Data Processing (GB 115 or Microcomputer familiarity)	3
Elective		3

17

Junior Year

1st Semester

Econ 300	Money & Banking (Econ 201 & 202)	3
GB 301	Business Law I	3
GB 321	Business Statistics I (Math 131, GB 237)	3
MM 300	Principles of Marketing (Econ 201, Econ 202)	3
MM 350	Principles of Management	3

15

2nd Semester

Econ 350	Financial Management (Econ 201, 202, Acct 201, 202, GB 237)	3
Economics Elective	(Econ 201, 202)	3
GB 320	Business Communications (Eng 102)	3
Required Business Elective:	Choose from GB 302, GB 322, MM 441, GB 337	3
Economics Elective	(Econ 201, 202)	3

15

*(Math 131)

Senior Year

1st Semester

Econ 401	Microeconomic Analysis (Econ 201, 202)	3
Econ 411	Investments (Econ 201, 202)	3
Economics Elective	(Econ 201, 202)	3
Electives		9
		18

2nd Semester

MM 452	Business Policy (Econ 350, MM 300, MM 350)	3
Econ 402	Macroeconomic Analysis (Econ 201, 202, 300)	3
Economics Elective	(Econ 201, 202)	3
Electives		6
		15

() Prerequisites

[] Dept Recommendations

For additional information contact:

Dean of School of Business Administration

Office: 302 Matthews Hall

Phone: 625-9319

ENTREPRENEURSHIP

FACULTY:

Kleindl

A concentration in Entrepreneurship is offered for all students, regardless of major, to enhance success of small business start ups. This concentration prepares the students to start their own businesses.

Requirements for a Concentration in Entrepreneurship:

	Semester	Hours
Entrepreneurship - Developing a Business Plan	1	
Entrepreneurship - Business Opportunities	1	
Entrepreneurship - Legal Aspects	1	
Entrepreneurial Financing and Information - Initial Capitalization	1	
Entrepreneurial Financing and Information - Cash Flow Budgeting	1	
Entrepreneurial Financing and Information - Microcomputer Applications	1	
Accounting for the New Venture - Procedures	1	
Accounting for the New Venture - Records	1	
Accounting for the New Venture - Taxation	1	
Managing the Small Business - The Management Process	1	
Managing the Small Business - Strategic Planning and Organizing	1	

Managing the Small Business - Human Relations	1
Marketing the Small Business - Promotion	1
Marketing the Small Business - Pricing	1
Marketing the Small Business - Merchandise/Inventory	1
	15

GENERAL BUSINESS

FACULTY:

Compton, Culwell, Finke, Gray, Grim, Johnson, Leitle, Miller, Rusley

The B.S.B.A. General Business major course of study is designed to prepare generalists in the field of business. These graduates will expect to be hired for entry level management positions or to pursue graduate degrees in Business Administration and Economics. The A.S. General Business major course of study is designed to prepare graduates for supervisory line positions, such as foremen, or as owner-operators of private businesses.

Requirements for a Bachelor of Science in Business Administration with a Major in General Business:

	Semester	Hours
General Education (Page 41)		46
Business Core (Page 105)		39
General Business Major:		15

(1) One additional course from each of the following areas:

Accounting	3
Economics and Finance	3
Marketing and Management	3
	9

(2) Two Business and Economic electives, one of which must be upper division

Electives	24-30
	124

Requirements for an Associate of Science in General Business:

	Semester	Hours
General Education (Page 41)		24
General Business Major:		38

GB 115	Business Math/ Microcomputers	3
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Econ 201	Principles of Economics-Macro	3
Econ 202	Principles of Economics-Micro	3

GB 301	Business Law I	3
GB 302	Business Law II	3
MM 300	Principles of Marketing	3
MM 350	Principles of Management	3

Electives: (Must be selected from the business areas of Personnel Management, Promotional Strategy, Retailing, Salesmanship, and Business Communications. Selections from psychology and computer science are also valid, with approval from advisor.) **11**

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Suggested Orders of Study

Bachelor of Science in Business Administration

Major Code 0501

General Business Major

Freshman Year

1st Semester	Course	Hours
[GB 101	Intro to Business]	3
Gen Ed	[Fine Arts]	3
Eng 101	Composition	3
Math 131	Finite Math	3
Psy 120	College Orientation	1
Elective		3
		16

2nd Semester

Eng 102	Composition (Eng 101)	3
Gen Ed	[Hist 110 or 120]	3
PSc 120	Gov't: U.S., State & Local	3
Gen Ed	[Comm 100 Oral Communications]	3
[GB 115	Business Math/Microcomputers]	3
HPER 101	Intro P.E. 2	
		17

Sophomore Year

1st Semester

Acct 201	Principles of Accounting I (Math 131)	3
Econ 201	Principles of Economics-Macro*	3
Gen Ed	[Bio 101]	4
Gen Ed	[Humanities]	3
HPER 160	Personal Health	2
		15

2nd Semester

Econ 202	Principles of Economics-Micro*	3
GB 237	Managerial Data Processing (GB 115 or microcomputer familiarity)	3
Acct 202	Principles of Accounting II (Acct 201)	3
Gen Ed	[Phys 100]	5
Gen Ed	[Fine Arts]	3
		17

Junior Year

1st Semester

GB 301	Business Law I	3
GB 321	Business Statistics (Math 131, GB 237)	3
MM 300	Principles of Marketing (Econ 201 and 202)	3
Required Accounting Elective	(Acct 201, 202)	3
MM 350	Prin of Management	3
		15

BUSINESS ADMINISTRATION

MARKETING AND MANAGEMENT

2nd Semester
 GB 320 Business Communications (Eng 102) 3
 Econ 350 Financial Management (Acct 201, 202, Econ 201, 202, GB 237) 3
 Required Business Elective, select one from:
 GB 302, Econ 300, MM 441, GB 322, GB 337
 Electives 8
17

Senior Year
 1st Semester
 Elective in Econ 300 or above 3
 Elective in Bus 300 or above 3
 Electives 300 or above 9
15

2nd Semester
 MM 452 Business Policy (Econ 350, MM 300, MM 350) 3
 Elective in Marketing & Management 300 or above 3
 Elective in Business 300 or above 3
 Electives 6
15

() Prerequisites
 [] Dept Recommendation

Associate of Science
 Major Code 5001
General Business Major

Freshman Year
 1st Semester
 Course Hours
 Acct 201 Principles of Accounting I (Math 131) 3
 Gen Ed [Psy 100 or Soc 110] 3
 GB 115 Business Math/Microcomputers 3
 Eng 101 Composition 3
 Gen Ed [Math 131] 3
 Psy 120 College Orientation 1
16

2nd Semester
 Acct 202 Principles of Accounting II (Acct 201) 3
 Econ 201 Principles of Economics-Macro 3
 Gen Ed [Hist 110 or PSc 120] 3
 Comm 100 Oral Communications 3
 HPER 101 or 160 2
 Gen Ed [Literature or Fine Art] 3
17

Sophomore Year
 1st Semester
 Business Elective [GB 320 Business Communications] 3
 GB 301 Business Law I 3
 MM 350 Principles of Management 3
 Econ 202 Principles of Economics-Micro 3
 Business Elective 3
15

2nd Semester
 MM 300 Principles of Marketing (Econ 201, 202) 3
 Business Elective 3
 Gen Ed [Bio 101 or Phys 100] 4-5
 GB 302 Business Law II 3
 Business Elective 3
17

() Prerequisite
 [] Dept Recommendation
 For additional information contact:
 Dean of School of Business Administration
 Office: 302 Matthews Hall
 Phone: 625-9319

MARKETING AND MANAGEMENT

FACULTY:

Baack, Bradshaw, Johnson, Larimore, Marion, Miller

The B.S.B.A. Marketing and Management major course of study prepares graduates for positions in either marketing or management. Typical management positions would be in personnel management. The typical marketing positions would include retailing, sales management and promotion.

Requirements for a Bachelor of Science in Business Administration with a Major in Marketing and Management:

Semester Hours
General Education (Page 41) 46
Business Core (Page 105) 39
Marketing and Management Major 18

(1) Required:
 4 of the 5 following courses: 12

MM 312 Retailing
 MM 352 Personnel Management
 MM 401 Promotional Strategy
 MM 412 Marketing Management
 MM 431 Operations Management

(2) Plus two courses from the following: 6

MM 441 Organizational Behavior
 MM 432 Consumer Behavior
 MM 470 Marketing Research
 MM 321 Salesmanship
 GB 410 Small Business Management

The fifth course not taken in Subsection I

Electives 21-27
124

Suggested Order of Study

Bachelor of Science in Business Administration
 Major Code 0506
Marketing and Management Major

Freshman Year
 1st Semester
 Course Hours
 Gen Ed [Fine Arts] 3
 Eng 101 Composition 3
 Math 131 Finite Math 3
 PSc 120 Gov't: U.S., State & Local 3
 Elective [OA 101 Typewriting I] 3
 Psy 120 College Orientation 1
16

2nd Semester
 Eng 102 Composition 3
 Hist 110 U.S. History 3

Elective [GB 115 Business Math/Microcomputers] 3
 Gen Ed [Comm 100 Oral Comm] 3
 Gen Ed [Fine Arts] 3
 HPER 101 Intro to P.E. 2
17

Sophomore Year

1st Semester
 Acct 201 Principles of Accounting I (Math 131) 3
 Econ 201 Principles of Economics-Macro* 3
 Gen Ed [Bio 101 General Biology or equivalent] 4
 Gen Ed [Humanities or Literature] 3
 HPER 160 Personal Health 2
15

2nd Semester
 Acct 202 Principles of Accounting II (Acct 201) 3
 Econ 202 Principles of Economics-Micro* 3
 GB 237 Managerial Data Processing (GB 115 or Microcomputer Familiarity) 3
 Phys 100 Fundamentals of Physical Science or equiv. 5
 Electives 3
17

Junior Year

1st Semester
 MM 300 Principles of Marketing (Econ 201, 202) 3
 MM 350 Principles of Management 3
 GB 301 Business Law I 3
 GB 321 Business Statistics (Math 131) 3
 Elective 3
15

2nd Semester
 MM 312 Retailing (MM 300) 3
 MM 352 Personnel Management (MM 350) 3
 GB 320 Business Communications (Eng 102) 3
 Econ 350 Financial Management (Acct 201, 202, Econ 201, 202, GB237) 3
 Required Business Elective choose one from:
 GB 302, Econ 300, GB 322, GB 337 3
15

Senior Year

1st Semester
 MM 321 Salesmanship (MM 300) 3
 MM 412 Marketing Management (MM 300) 3
 MM 431 Operations Management (GB 321) 3
 MM 441 Organizational Behavior (MM 350) 3
 Electives 3
15

2nd Semester
 MM 452 Business Policy (Econ 350, MM 300, MM 350) 3
 MM 401 Promotional Strategy (MM 300) 3
 Electives [MM 470 Marketing Research, MM 432 Consumer Behavior, GB 410 Small Business Management] 9
15

() Prerequisites
 [] Dept Recommendation

For additional information contact:
 Dean of School of Business Administration
 Office: 302 Matthews Hall
 Phone: 625-9319

*(Math 131)

BACHELOR OF SCIENCE IN MANAGEMENT TECHNOLOGY

The B.S. Management Technology major course of study is for students who have already received an Associate degree in a technical field or other technical preparation approved by the advisor and school dean, and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students *must* apply for admission to the program in the first semester of the junior year.

Requirements for a Bachelor of Science in Management Technology:

	Semester Hours
General Education (Page 41)	46
Management Technology Major:	42
(1) Required:	
Acct 201 Principles of Accounting I	3
Acct 202 Principles of Accounting II	3
GB 301 Business Law I	3
GB 302 Business Law II	3
GB 320 Business Communications	3
Econ 201 Principles of Economics-Macro	3
Econ 202 Principles of Economics-Micro	3
Econ 350 Financial Management	3
MM 300 Principles of Marketing	3
MM 350 Principles of Management	3
MM 431 Operations Management	3

(2) Three additional courses selected from:

Acct 310 Cost Accounting	
GB 321 Business Statistics I	
GB 237 Managerial Data Processing*	
MM 401 Promotional Strategy	
MM 412 Marketing Management	
MM 352 Personnel Management	
MM 452 Business Policy	

Electives (Includes courses already taken at Associate level)

36-42

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*Students obtaining an A.S. in Computer Science may not choose GB 237 as a required elective.

OFFICE ADMINISTRATION AND BUSINESS EDUCATION

FACULTY:

Compton, Culwell, Grim, Rusley

Secretarial training is available under both an Associate of Science degree and a One-year Certificate. The A.S. Office Administration major course of study provides both secretarial skills and the necessary business skills for a graduate to manage an office. The One-year Certificate in the Secretarial Science major course of study prepares a recipient to function as a clerk-typist.

Requirements for Associate of Science in Office Administration:

	Semester Hours
General Education (Page 41)	24
Office Administration Major:	39
Acct 201 Principles of Accounting I	3
GB 320 Business Law I	3
GB 301 Business Communications	3
OA 200 Typewriting III	3
OA 220 Shorthand III	3
OA 230 Administrative Secretarial Procedures	3
OA 231 Machine Transcription/Reprographics	3
OA 240 Records Management	3
OA 250 Introduction to Word Processing	3
Electives: (May include prerequisite courses to OA 200 and OA 220 if needed. Others must be selected from MM 350, Principles of Management; Acct 202, Principles of Accounting II; Econ 201, Principles of Economics-Macro; Econ 202, Principles of Economics-Micro; or GB 115, Business Math/Microcomputers. Selections from Psychology and Computer Science are also valid, with approval from advisor.)	12

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Requirements for One Year Certificate of Achievement in Secretarial Science:

	Semester Hours
OA 120 Shorthand II	3
OA 102 Typewriting II	3
GB 115 Business Math/Microcomputers	3
Acct 201 Principles of Accounting I	3
Eng 101 Composition	3
GB 320 Business Communications (Eng 102)	3
OA 200 Typewriting III	3
OA 220 Shorthand III	3
OA 231 Machine Transcription/Reprographics	3
SP 100 Oral Communications	3

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Suggested Orders of Study

Associate of Science

Major Code 5005

Office Administration

Freshman Year

1st Semester	Course	Hours
Gen Ed	[Psy 100 or Soc 110]	3
Comm 100	Oral Communications	3
Eng 101	Composition	3
Math 30	Intermediate Algebra OR Math 110	3
Psy 120	College Orientation	1
Elective	[GB 115 Business Math/Microcomputers]	3
		16

2nd Semester

GB 320	Business Communications (Eng 102)	3
OA 200	Typewriting III	3
Gen Ed	[Literature or Fine Art]	3
HPER 101 or HPER 160		2
Gen Ed	[Psc 120 or Hist 110]	3
Elective in Business		3
		17

Sophomore Year

1st Semester		
OA 231	Machine Transcription/Reprographics (OA 102)	3
Acct 201	Principles of Accounting I (Math)	3
GB 301	Business Law I	3
Electives in Business		6
		15

2nd Semester

OA 230	Administrative Secretarial Procedures (OA 102)	3
OA 220	Shorthand III (OA 120)	3
OA 250	Word Processing (OA 102)	3
Gen Ed	[Bio 100 or Phys 100]	4-5
OA 240	Records Management	3
		16-17

Business Electives may include prerequisite courses to OA 200 and OA 220 if needed. Others should be selected from Principles of Management, Accounting, Economics, or Business Math. Psychology or Computer Science courses may be selected with approval of advisor.

[] Dept Recommendation
() Prerequisite

Secretarial-Typist Certificate

Major Code 5065

One-year Schedule

1st Semester	Course	Hours
Comm 100	Oral Communications	3
OA 102	Typewriting II	3
OA 120	Shorthand II	3
Eng 101	Composition	3
OA 231	Machine Transcription/Reprographics	3
		15

BUSINESS ADMINISTRATION

BUSINESS EDUCATION

2nd Semester

GB 115	Business Math/Microcomputers	3
OA 200	Typewriting III	3
OA 220	Shorthand III (OA 120 & OA 102)	3
GB 320	Business Communications (Eng 102)	3
Acct 201	Principles of Accounting I (Math)	3
		15

() Prerequisite

For additional information contact:
Dean of School of Business Administration
Office: 302 Matthews Hall
Phone: 625-9319

BACHELOR OF SCIENCE IN EDUCATION (BUSINESS MAJOR)

The B.S.E. Business major course of study prepares graduates to teach Business as either a single or dual field at the secondary level.

Requirements for Bachelor of Science in Education with Business as a single teaching field (Plan B):

	Semester	Hours
General Education (Page 41)	46	
Business courses (Pages 118-120)	35	
Business Major:	42	
OA 102*	Typewriting II	3
OA 200*	Typewriting III	3
OA 120*	Shorthand II	3
OA 220*	Shorthand III	3
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Accounting - Choose one:		3
Acct 312	Intermediate Accounting I	
Acct 310	Cost Accounting	
Acct 401	Tax Accounting	
GB 237	Managerial Data Processing	3
Econ 201	Prin of Economics-Macro	3
GB 320	Business Communications	3
GB 301	Business Law I	3
OA 250	Intro to Word Processing	3
GB 312	Prin of Business Education	3
MM 350	Principles of Management	3
Recommended Electives (but not required)		
OA 230	Administrative Secretarial Procedures	
GB 115	Business Math/Microcomputers	
OA 231	Machine Transcription/Reprographics	
Elective		1-4
		124

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 42 hour requirement.

Requirements for Bachelor of Science in Education with Business as one of two teaching fields (Plan A):

General Education (Page 41)	46
Business courses (Pages 118-120)	35
Business Major:	33

OA 102*	Typewriting II	3
OA 200*	Typewriting III	3
OA 120*	Shorthand II	3
OA 220*	Shorthand III	3
Acct 201	Principles of Accounting I	3
Acct 202	Principles of Accounting II	3
Accounting: Select One:		3
Acct 312	Intermediate Accounting I	
Acct 310	Cost Accounting	
Acct 401	Tax Accounting	
Econ 201	Prin of Economics-Macro	3
GB 320	Business Communications	3
GB 301	Business Law I	3
GB 237	Managerial Data Processing	3
Recommended Electives (but not required)		
GB 115	Business Math/Microcomputers	
OA 231	Machine Transcription/Reprographics	
OA 250	Introduction to Word Processing	

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses to meet the 33 hours requirement.

Suggested Order of Study

Bachelor of Science
Major Code 0838
Business Education
Plan B-Single Teaching Field

Freshman Year

1st Semester		
Course		Hours
Eng 101	Composition	3
Hist 110	U.S. History	3
Gen Ed	[Fine Arts]	3
Psy 110	Psychology of Human Development	5
HPER 101	Intro to P.E.	2
Psy 120	College Orientation	1
		17

2nd Semester

Eng 102	Composition (Eng 101)	3
PSc 120	Gov't: U.S., State, & Local	3
Gen Ed	[Humanities or Fine Arts]	3
Math 131	Finite Math	3
Psy 302	Exceptional Child (Psy 110)	2
Elective [GB 115, Bus Math/Microcomputers]		3
		17

Sophomore Year

1st Semester

Econ 201	Prin of Economics-Macro (Math 131)	3
Acct 201	Prin of Accounting I (Math 131)	3
Gen Ed	[Bio 101]	4
Gen Ed	[Humanities or Fine Arts]	3
HPER 160	Personal Health	2
Educ 300	Clinical Experience	2
		17

2nd Semester

Gen Ed	[Econ 202 Principles of Economics-Micro* (Math 131)]	3
Acct 202	Principles of Accounting II (Acct 201)	3
GB 237	Managerial Data Processing (GB 115 or microcomputer familiarity)	3
Gen Ed	Phys 100	5
Comm 103	Business and Professional Speech	3
		17

Junior Year

1st Semester

Acct 312	Intermediate Accounting I or Acct 310 Cost Accounting or Acct 410 Tax Accounting (Acct 202)	3
GB 301	Business Law I	3
OA 120	Shorthand II (OA 111)	3
MM 350	Principles of Management	3
OA 102	Typewriting II (OA 101)	3
		15

2nd Semester

[GB 302	Business Law II]	3
OA 200	Typewriting III (OA 102)	3
OA 220	Shorthand III (OA 120)	3
Psy 310	Educational Psychology	2
GB 320	Business Communications (Eng 102)	3
Educ 422	Reading in Secondary School	2
		16

Senior Year

1st Semester

[OA 231	Machine Transcription/Reprographics]	3
OA 250	Introduction to Word Processing (OA 102)	3
Educ 330	Structure of Teaching	2
Educ 331	Microteaching	2
GB 312	Principles of Business Ed	3
Educ 370	Instructional Media	2
		15

2nd Semester

Professional Semester	16
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() Prerequisites

[] Dept Recommendation

For additional information contact:
Dean of School of Business Administration
Office: 302 Matthews Hall
Phone: Ext. 625-9319

Students with proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 42 hours requirement.

SCHOOL OF BUSINESS

COURSE DESCRIPTIONS

ACCOUNTING (Acct)

Principles of Accounting I (F,S)

06.0201-201 3 hrs. cr.
Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or co-requisite: Math 131.

Principles of Accounting II (F,S)

06.0201-202 3 hrs. cr.
A continuation of Accounting 201 with emphasis on corporation accounting. Prerequisite: Acct 201.

Cost Accounting (F,S)

06.0201-310 3 hrs. cr.
Study of accounting cost systems providing information generation for managerial planning and control. Special emphasis on product and process cost systems as applied to industrial enterprise. Prerequisites: Acct 202, GB 237

Intermediate Accounting I (F,S)

06.0201-312 4 hrs. cr.
The first of two courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). The course is organized in four major areas: (1) environment of financial accounting and the basic theoretical considerations underlying financial accounting concepts and standards; (2) financial accounting process from transaction analysis to the financial statements; (3) accounting for current assets; (4) accounting for property, plant, and equipment assets and intangible assets. Prerequisite: Acct 202

Intermediate Accounting II (F,S)

06.0201-322 4 hrs. cr.
The second of two courses that comprehensively cover financial accounting concepts and standards for business enterprises (with emphasis on the corporation). Organized in four major areas: (1) accounting for current liabilities, long-term liabilities and long-term investments; (2) shareholders' equity and earnings per share; (3) accounting for pensions, leases and income taxes; (4) financial statement reporting and analysis. Prerequisite: Acct 312.

Tax Accounting (F,S)

06.0201-401 3 hrs. cr.
Procedures for reporting federal income taxes with emphasis on income and deductions for

individuals. Practice in preparing federal income tax returns. Prerequisite: Acct 202 or permission.

Advanced Accounting (S)

06.0201-402 3 hrs. cr.
Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322.

Auditing (F,S)

06.0201-411 3 hrs. cr.
Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, the impact of electronic data processing, and performing an audit. Prerequisite: Acct 322.

CPA Problems [Demand]

06.0201-412 3 hrs. cr.
Preparation for the Uniform Certified Public Accountant Examination. Includes methods of studying for the examination, lectures, and problem solving exercises on examination subjects, and a review of appropriate theoretical and technical pronouncements. Prerequisite: 21 hours of accounting including Acct 411, or senior standing and permission of the instructor.

Accounting Theory (S)

06.0201-420 3 hrs. cr.
Study of the theory of income, asset valuation, and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Prepares the student for the CPA. Theory Examination. Prerequisite: Acct 322.

Governmental & Institutional Accounting (F)

06.0201-421 3 hrs. cr.
Accounting principles, standards, and procedures that apply to nonprofit organizations such as state and local governments, schools, hospitals and churches. Prerequisite: Acct 312.

Internship in Public Accounting [Demand]

06.0201-491 1-8 hrs. cr.
Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee.

Seminar in Accounting [Demand]

06.0201-498 1-3 hrs. cr.
For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:
498 - Seminar in Advanced Tax
498 - Seminar in Managerial Accounting
498 - Seminar in Advanced Auditing
498 - Seminar in Advanced Cost

Independent Study in Accounting [Demand]

06.0201-499 1-3 hrs. cr.
Individually directed readings, research, and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and 3.0 GPA

GENERAL BUSINESS (GB)

Introduction to Business (F,S)

06.0101-101 3 hrs. cr.
Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation. Not available for credit for those with more than 6 hours of Business.

Business Mathematics/Microcomputers (F,S)

06.0101-115 3 hrs. cr.
Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes, and financial statements. Should be taken concurrently with or preceding accounting. Use of modern electronic calculators and microcomputers on the solution of business mathematics problems.

Managerial Data Processing (F, S)

06.1201-237 3 hrs. cr.
Application of automatic information processing to business, the media for recording, processing and controlling of business information by the automatic process, and the formats and flow of data through electronic computers with simulated problems applicable to areas of Accounting, Management, and Marketing. Credit may not be allowed for both GB 237 and CIS 305. Prerequisite: GB 115 or microcomputer familiarity.

Business Law I (F,S)

06.0101-301 3 hrs. cr.
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes a study of the court systems and procedures, contracts, personal property and bailments, sales, and commercial paper. Special emphasis on Mis-

BUSINESS ADMINISTRATION

COURSES/ECONOMICS

souri case-law and statutes. Lectures supported by actual case decisions and case digests. Prerequisite: Junior standing.

Business Law II (F,S)

06.0101-302 3 hrs. cr.
Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisites: Junior standing.

Principles of Business Education (F)

06.0101-312 3 hrs. cr.
Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations, and vocational programs.

Business Communications (F,S)

06.0101-320 3 hrs. cr.
Communication through sound written and oral business messages. Includes principles, functions, techniques, and format of writing effective letters, memos, and reports with emphasis on the application process. Prerequisites: 6 hrs. English Composition or consent of instructor.

Business Statistics I (F,S)

06.1301-321 3 hrs. cr.
Basic concepts of descriptive and inferential statistics and to the methods of statistical analysis as they apply to business decision making. Topics studied include: frequency distribution; measures of central tendencies and dispersion; sample regression and correlation analysis; time series and seasonal analysis; probability concepts; sampling distributions; and estimation procedures. Prerequisites: Math 130 or 131 or higher, GB 237.

Business Statistics II (S)

06.1301-322 3 hrs. cr.
Methods of statistical analysis relating to business decision making and research in business and economics. Covers sampling theory, parametric test of hypotheses, analysis of variance, nonparametric test of hypotheses, statistical quality control, decision making under uncertainty, index numbers, and other selected statistical techniques. Prerequisite: GB 321.

Selection of Hardware/Software for Business Applications (Demand)

06.1201-337 3 hrs. cr.
Familiarizes business majors with the problems and considerations involved when making the selection of hardware and software in the business environment. Prerequisite: GB 237 or CIS 115 and 120.

Small Business Management Practicum (F,S)

06.1801-410 3 hrs. cr.
A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated to a total of six hours of credit. Prerequisite: Second semester Junior or Senior standing in Business Administration and permission of the instructor. Application for admission to the course is required.

Labor Law [Demand]

06.0101-411 3 hrs. cr.
Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Junior standing.

Seminar in General Business [Demand]

06.0101-498 1-3 hrs. cr.
For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:
498-Seminar in Office Machines
498-Seminar in Career Orientation
498-Seminar in Human Relations

Independent Study in General Business [Demand]

06.0101-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of general business for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA

ECONOMICS AND FINANCE (Econ)

The American Economic System (F,S)

06.0501-180 3 hrs. cr.
A general education course on the goals, organization and operation of the U.S. market economy. Topics include: scarcity and choice; the operation of the pricing mechanism and the role of competition, profits, savings and investment in the allocation of resources; the economic functions of government; limitations of the market system; market versus command economies; and the industrial organization of our contemporary capitalistic economy with emphasis on the activities of the business firm. Not for credit for Business majors or for those who have taken Econ 201 or 202.

Principles of Economics (Macro) (F,S)

06.0501-201 3 hrs. cr.
Economic principles that apply to the economy as a whole, such as: total income, output, employment, general price level, economic growth, international trade, monetary and fiscal policies, and current economic problems. Prerequisite: Sophomore standing or permission, Math 130 or above.

Principles of Economics (Micro) (F,S)

06.0501-202 3 hrs. cr.
Fundamental institutions of the American economy, the theory of price determination, and the theory of income distribution. Prerequisite: Sophomore standing or permission, Math 130 or above.

Money and Banking (F,S)

06.0501-300 3 hrs. cr.
The nature, need constituents, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and 202.

Economic Growth and Development [Demand]

06.0501-302 3 hrs. cr.
The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations, and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

Economic Resources [Demand]

06.0501-312 3 hrs. cr.
Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization, and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.

Business Statistics II

06.1301-322 (See Gen. Bus. 06.1301-322 Bus. Statistics II.)

Principles of Insurance [Demand]

06.0801-330 3 hrs. cr.
Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance, and life insurance. Prerequisite: Econ 201 and 202.

Financial Management (F,S)

06.0501-350 3 hrs. cr.
Examination of the financial structure of business organization, capital structure, and methods of raising fixed and working capital; questions of financial policy, such as dividend policies and the conservation of surplus; comparative balance sheets and income-expense statements. Prerequisites: Econ 201 and 202, Acct 202, GB 237.

Microeconomic Analysis (F)

06.0501-401 3 hrs. cr.
A study of the price system and resource allocation through a system of markets and prices, the conditions for an efficient economic system, the determination of product and input prices under various types of markets. Marginal productivity and income distribution, and optimum welfare. Prerequisites: Econ 201 and 202.

Macroeconomic Analysis (S)

06.0501-402 3 hrs. cr.
Fundamental concepts and theories of the aggregate economic variables, an aggregate economic model of the economy including goods market, money market, labor market, and foreign market; their interrelation and interaction. Comparative static and dynamic analysis. The economic growth in a dynamic setting, inflation and income distribution. Prerequisite: Econ 300.

Investments (F)

06.1001-411 3 hrs. cr.
Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Urban and Regional Economics [Demand]

06.0501-412 3 hrs. cr.
Introduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives and current urban problems. Prerequisites: Econ 201 and 202.

Seminar in Economics & Finance [Demand]

06.0501-498 1-3 hr. cr.
Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are:
498-Seminar in International Economics
498-Seminar in Business Cycles
498-Seminar in Public Finance

Independent Study in Economics-Finance [Demand]

06.0501-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA

MARKETING AND MANAGEMENT (MM)

Principles of Marketing (F,S)

06.1401-300 3 hrs. cr.
Survey of major marketing methods, institutions and practices. The subjects of retailing, wholesaling, distribution channels, marketing legislation, advertising, cooperative marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.

Retailing (F,S)

06.1401-312 3 hrs. cr.
Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: MM 300.

Salesmanship (F)

06.1401-321 3 hrs. cr.
Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students which are videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.

Principles of Management (F,S)

06.0401-350 3 hrs. cr.
Survey of the current state of the art and science of management. The study of the role of managers and how through the coordination of the managerial functions (planning, organizing, leading, contributing, etc.) organizational and individual goals may be achieved.

Personnel Management (F,S)

06.0401-352 3 hrs. cr.
Principles and practices of management with emphasis on the human factors, including procurement, development, and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

Promotional Strategy (S)

06.1401-401 3 hrs. cr.
Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising, and formulation of campaigns. Prerequisite: MM 300.

Marketing Management (F)

06.1501-412 3 hrs. cr.
Managerial aspects of marketing: problems involved in goal setting, planning, and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy, and marketing intelligence. Prerequisites: MM 300 and MM 350.

Operations Management (F)

06.0401-431 3 hrs. cr.
Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design, and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.

Consumer Behavior (Demand)

06.1499-432 3 hrs. cr.
An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological, economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

Organizational Behavior (F,S)

06.1501-441 3 hrs. cr.
Study of people in organizations to provide an opportunity for more self awareness. Focuses on organizational effectiveness as well as satisfaction of individual needs. Students are offered the opportunity to develop more fully their ability to analyze and act on human behavior problems they will face in the future. Prerequisite: MM 350.

Business Policy (F,S)

06.0401-452 3 hrs. cr.
An integrating capstone course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisites: MM 300, MM 350, Econ. 350. This course must be taken during the last year of college work.

Marketing Research (S)

06.0401-470 3 hrs. cr.
The systematic gathering, recording, analyzing and presentation of data relating to (1) market analysis, (2) sales analysis, (3) consumer research, (4) advertising research and (5) attitude research. Prerequisites: GB 321, and six hours of marketing.

Internship in Marketing/Management (F, S)

06.1501491 1-8 hrs. cr.
An internship for senior Marketing/Management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to

BUSINESS ADMINISTRATION

COURSES/ADMINISTRATION, EDUCATION

institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: Senior standing and department approval.

Seminar in Marketing & Management [Demand]

06.1401-498 1-3 hrs. cr.
Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

Independent Study in Marketing and Management [Demand]

06.1401-499 1-3 hrs. cr.
Individually directed readings, research, and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration, and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.

OFFICE ADMINISTRATION AND BUSINESS EDUCATION

Typewriting I (F,S)

07.0601-101 3 hrs. cr.
Emphasis on learning to manipulate the typewriter efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one or more units of high school typewriting.

Typewriting II (F,S)

07.0601-111 3 hrs. cr.
A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables and personnel employment communications. Prerequisite: OA 101 or a good knowledge of the keyboard.

Shorthand I (S)

07.0601-111 3 hrs. cr.
A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Class meets five days a week. Prerequisite: Typewriting

Shorthand II (F)

07.0601-120 3 hrs. cr.
A dictation course including a review of theory and special attention to the development of efficient transcription procedures. Dictation ranges

from 60 to 110 words per minute. The minimum speed requirement by the end of the semester is 80 words per minute with 95 percent accuracy. Prerequisite: OA 111 or any course in which the theory has been completed.

Typewriting III (S)

07.0601-200 3 hrs. cr.
Production of all types of letters, reports, business forms, tables, and legal forms based on realistic office job simulations. Prerequisite: OA 102 or equivalent.

Shorthand III (S)

07.0601-220 3 hrs. cr.
The application of shorthand theory, grammar, punctuation and capitalization rules, and spelling to the transcription of business letters and memoranda. Emphasis on accuracy and rate of transcription and the ability to produce mailable office correspondence. Prerequisite: OA 120 or equivalent or OA 102 or equivalent.

Administrative Secretarial Procedures (S)

07.0601-230 3 hrs. cr.
A study of secretarial duties performed and the conditions under which the secretary functions. The student will receive practice in decision making and the application of administrative secretarial skills through simulated office situations. Offered for sophomores in the Office Administration curriculum. Prerequisite: OA 102; recommended, GB 320/or permission.

Machine Transcription/Reprographics (F)

07.0601-231 3 hrs. cr.
Students will be introduced to and expected to develop a knowledge and efficient operable skill in reprographic equipment, transcribing machines and word processing equipment. Offered for students in the Office Administration curriculum. Prerequisite: OA 102 Intermediate Typewriting.

Records Management (S)

07.0601-240 3 hrs. cr.
Intensive exposure to the knowledge and skills that are needed in modern day records management and their application to various types of businesses. Includes a study of the creation classification, retention, and disposal of records with emphasis on the control aspect. Offered for students in the Office Administration curriculum.

Introduction to Word Processing (F,S)

07.0601-250 3 hrs. cr.
Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: OA 102 Intermediate Typewriting.

Principles of Business Education (F)

13.1303-312 (See General Business 06.0101-312)

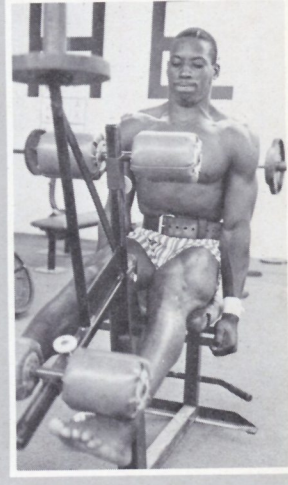
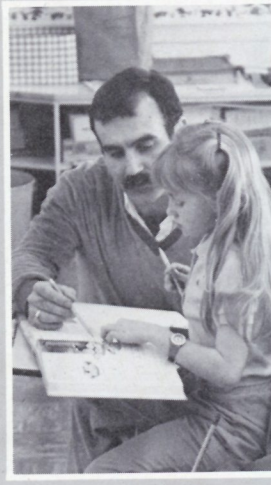
Methods of Teaching Business (S)

13.1303-336 2 hrs. cr.
Special methods of instruction problems and difficulties peculiar to the teaching of each business subject; presentation of subject matter; content and arrangement of material, organization and administration. Prerequisite: Admission to the Teacher Education Program and completion of required business courses (See page 110). Two hours credit in Education.

THE SCHOOL OF EDUCATION AND PSYCHOLOGY



Gym class, 1939



EDUCATION AND PSYCHOLOGY

SCHOOL DEAN:

Edward P. Merryman

DEGREES OFFERED:

Bachelor of Arts

Psychology

Bachelor of Science

Psychology

Bachelor of Science in Education

Elementary Education

Secondary Education

Physical Education

Psychology-Special Education

ROLE:

The School of Education and Psychology shares the mission of Missouri Southern State College by providing the professional education for pre-service elementary and secondary teachers and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the rest of the institution by providing support courses in Physical Education and Psychology to the general education program.

A unique characteristic of the basic teacher preparation program is that the responsibility for training pre-service elementary and secondary teachers is shared with academic units outside of the School of Education and Psychology; however, the ultimate responsibility for the program rests with the Education Department.

The programs in the School of Education and Psychology are service-oriented programs which attract students who wish to make their contribution to society through teaching, research and humanitarian services. Because of the critical nature of the contributions that these students make to society, students who are academically talented are encouraged to join the program.

SCOPE:

The School of Education and Psychology contributes to the mission of the College through teaching, community service and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the

faculty serve as professional role models for their students, they are aware of current pedagogical practices that have been developed from research and learning theory, and they use this knowledge to develop teaching methods, techniques, and procedures to create a maximal learning environment for their students.

Faculty provide services to the community by participating in civic organizations as leaders, members, and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children, and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

TEACHER EDUCATION

OBJECTIVES: The role of the teacher education program at Missouri Southern, as it relates to the mission of the College, is to provide the area and state with highly qualified and capable teacher personnel. The scope of the teacher education program, as it relates to the mission of the College, is to train teachers in elementary education, special education, and secondary education. In order to fulfill this mission, the teacher education curricula are based on explicit objectives that reflect the teacher education faculty's concept of the role of the teacher.

The objectives for the teacher education student are:

1. to develop teachers who have a broad background in general education;
2. to develop teachers with a comprehensive background in the content of their teaching specialty;
3. to develop teachers who are competent in the social and psychological foundations of the teaching-learning process for accommodating pupil differences derived from ethnic, linguistic, socio-economic, cognitive styles and abilities, and other special sources;
4. to develop teachers who are knowledgeable in curriculum design and learning strategies and who are committed to using this knowledge and skill in the

development of effective learning programs for their students;

5. to develop teachers who have the knowledge and skill to assess, evaluate, and diagnose their students in order to determine needs and goal attainment;

6. to develop teachers who are committed to ethical behavior and professional conduct and who can participate in the school community with dignity and professional pride;

7. to develop teachers who are able to understand new technologies and who are adequately prepared to utilize them in the education of their students;

8. to develop teachers who are able to communicate effectively with students, parents, policy- and decision-makers, and other persons with whom they have personal and professional contact;

9. to develop teachers who understand the dignity and worth of every individual learner consonant with the values of our democratic and pluralistic society.

The objectives for the teacher education program are:

1. to provide a strong advising program by having informed advisors who in turn help maintain a student body which is enlightened regarding the purposes of professional education and are well informed about their individual programs;

2. to provide the education student with teaching and learning experiences that extend beyond the confines of the college classroom;

3. to develop positive educational strategies for teacher education with a realization that various aspects of human differences can be adequately considered in planning for class instruction or a course of study;

4. to integrate course work with meaningful laboratory and practicum experiences early in the education student's professional sequence;

5. to stress the multi-media approach to the teaching-learning situation;

6. to train the teacher education student in the application and use of techniques, such as interaction analysis and peer observation, that can be used to analyze and critique one's peers and thereby improve these techniques, i.e., questioning strategies, lecture, discussion, etc;

7. to broaden communication with public school administrators, teachers, school boards, and other interested citizens;

8. to foster campus-wide integration of the teacher education program;

9. to evaluate continually the instructional sequence and those students completing it to determine if they are capable of effectively performing the skills being stressed;

10. to provide several options and a rationale for the diagnostic and evaluative process of students such as paper and pencil tests, work samples, performance tests, and observations;

11. to provide a professional role model for teacher education candidates which shall include lessons with clearly stated objectives, teaching episodes which include varied teaching techniques, and evaluatory procedures that reflect the stated objectives. This role model shall also include exemplary professional and ethical behavior;

12. to create sensitivity, understanding, and awareness in teacher education candidates toward the various cultures within our society;

13. to develop clear goals that are sensitive and responsive to both the reality of what our schools are today and to our aspirations for what they may become;

14. to plan sequential experiences that move prospective teachers toward greater sophistication and wider application of teacher knowledge and skills;

15. to establish criteria which ensure that teacher education students are at an acceptable level of proficiency when they begin professional practice.

BACHELOR OF SCIENCE IN EDUCATION

Students who major in elementary education, elementary education/special education, physical education, psychology/special education, and secondary education and who successfully complete the requirements for this degree are eligible for teacher certification. Recipients of other degrees, who later decide to teach, can be certified through the State Department of Elementary and Secondary Education by meeting the requirements prescribed by the Dean of the School of Education and Psychology.

Admission to the Teacher Education Program

Students seeking admission to the teacher education program who are BSE students or who are post baccalaureate students seeking certification and who enter under this catalog (1987-1989) must meet these requirements:

1. reference from an instructor in the major area;
2. reference from an instructor outside the major area;
3. reference from the Structures of Teaching instructor;
4. reference from the Microteaching instructor;
5. satisfactory evaluation from the Junior Block instructors;
6. achievement of a minimum cumulative GPA of 2.5 at the completion of 55 hrs. and Educ 300; Educ 320/330; Educ 321/331, and Educ 370;
7. ACT composite of 18 or SAT (V + M) of 800;
8. autobiography;
9. application approved by major department.

Admission to Student Teaching

Between the Junior Block and the Professional Block the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a GPA of 2.5 or better and must continue maintaining those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. admission to the Teacher Education Program;
2. GPA of 2.5;
3. completion of methods courses in teaching specialty;
4. no expressed reservations from the student's teaching specialty department or the Education Department.

Application for Graduation

During and after the student teaching period one last check is made to verify that the following requirements are met:

1. all requirements for admission into the Teacher Education Program;

2. all requirements for admission to student teaching;

3. all course requirements in general education, professional education and the teaching specialty;

4. satisfactory completion of the National Teachers Examination, the CORE Battery of the NTE, and the teaching area specialty examination;

5. satisfactory completion of the student teaching experience.

Advisement

Each student who enrolls at Missouri Southern State College will have an advisor assigned who will help the student plan a program of studies. A student above the sophomore level will have faculty advisors assigned by the school in which a specialty is chosen. **All post-graduates seeking certification to teach are advised by the Department of Education.**

Information regarding teacher certification requirements, employment opportunities, professional education requirements, and supervised student teaching may be obtained from the Department of Education.

Special Education Certification

Special Education is offered as an area of concentration in Elementary and/or Secondary Education. Students interested in such certification for teaching special education at any level should check with the Department of Education for details and requirements. All students preparing to teach in a special education area (LD, MH, BD) must complete supervised student teaching and a practicum in the area of certification. Careful planning makes it possible for a student to receive certification in three areas of special education with little additional course work. In addition to the requirements for the elementary (1-8) or the secondary (7-12) Bachelor of Science Degree in Education, students seeking special education certification take the following courses: Educ 324, Educ 430, Educ 474, Educ 420, Educ 407, Educ 423, Educ 442-Student Teaching Elementary, Educ 444-Student Teaching Special Education and Educ 446, Practicum with Learning Disabled, Mentally Handicapped, or Behaviorally Disordered students.

Learning Disabled - Certification requirements to teach the Learning Disabled:

EDUCATION AND PSYCHOLOGY

CERTIFICATION

The elementary or secondary course sequence, the generic special education sequence above, Educ 404 Methods of Teaching Children with Learning Disabilities, Educ 442 and 444 Student Teaching and Educ 446, Practicum with Learning Disabled children.

Mentally Handicapped - Certification requirements to teach the Mentally Handicapped:

The elementary or secondary sequence, the generic special education sequence listed above, Educ 403 Methods of Teaching Mentally Handicapped Children and Educ 442 or 446 Student Teaching or Practicum with Mentally Handicapped Children.

Behavior Disorders - Certification requirements to teach Behaviorally Disordered:

Either the elementary or secondary course sequence, the special education sequence, plus Educ 405 Teaching Children with Behavior Disorders, and Educ 442, 444 and 446 Student Teaching or Practicum with Behavior Disordered Children.

Remedial Reading Certification

Students who complete a BSE degree with initial certification in an elementary or secondary education teaching field may be certified in remedial reading by completing the new (1986) Missouri certification requirements for remedial reading. For additional information, contact the Dean or Education Department Head. Students in elementary education may complete an *area of concentration* in remedial reading by satisfactorily completing the following courses: Educ 302, Educ 342, Educ 343, Educ 422, Educ 470, Educ 471, Educ 472 and Educ 474. The above courses will satisfy the 21 hours for an area of concentration. Additional hours are required for state certification in remedial reading. The area of concentration will partially fulfill the new requirements for remedial reading.

Early Childhood Certification

Elementary education majors who wish to certify in early childhood education grades K-3 may do so in conjunction with their coursework in elementary education by taking the following courses: HPER 340 Motor Learning in Physical Education-3 hrs; Educ 423 Classroom Management-2

hrs; Educ 430 Language Development-3 hrs; Educ 316 Introduction to Early Childhood Education-3 hrs; Educ 319 Early Childhood Education Curriculum-3 hrs; Educ 474 Educational Psychological Testing for Special Education-3 hrs; Educ 407 Diagnostic Prescriptive Teaching-3 hrs; and Educ 433 Utilizing Family and Community Resources for the Young Child-2 hrs.

Student teaching must be in Early Childhood pre-school through grade 3. Education 300-Clinical Experiences must be in grades K-3, and/or preschool in the Missouri Southern Child Development Center.

Middle School Certification

Elementary education majors who wish to certify in middle childhood education grades 4-9 must complete a 21 hour concentration in a teaching specialty area as specified for certification in grades 7-9. Information for this certification is available from the Dean and the Head of the Education Department. Secondary education majors who wish to obtain Middle School certification are requested to see the Dean of the School of Education and Psychology for certification requirements.

Teacher Certification by "Academic Contract"

The Missouri State Department of Education has designed a procedure whereby college graduates who did not take a prescribed teacher education program in their degree programs can meet the necessary requirements to become certified teachers by filing an "Academic Contract" with certain approved colleges and universities. The designated college is responsible for informing the State Department of Education what credit will be needed for certification and for the recommendation to issue the teaching certificate.

An "Academic Contract" may be executed with Missouri Southern on the condition that the person qualifies for admission into its teacher education program, has a signed statement from a school administrator certifying employment, and has been properly enrolled in the College. All regular graduates of the teacher education program at Missouri Southern are awarded certification upon the recommendation of the Dean, School of Education and Psychology.

SECONDARY EDUCATION

The curriculum for Secondary Education at Missouri Southern is a joint effort of each department supporting an area of certification and the Education Department. Each department, according to established guidelines from the State Department of Education and learned societies and professional organizations, recommends and staffs courses that will lead to certification. The Education Department provides the professional studies component and provides counseling and advising to insure that all graduation and certification requirements are met.

The Secondary Education Committee, which meets on a regular basis, has adopted the following objectives for all secondary education majors.

Objectives: (Secondary Education 7-12)

Students in secondary education are expected to meet the objectives for all students in teacher education as set forth in standard 2.1 for the teacher education program. The specific objectives for secondary education are as follows:

1. The students shall demonstrate teaching competency in one or more teaching specialties.
2. The students know the general stages of growth and development and can relate these to educational planning in their teaching specialties.
3. The students can demonstrate knowledge of cultural diversity, mental exceptionalities and physical exceptionalities as they relate to instructional planning.
4. The students are aware of at least three classroom management models and can use them for classroom control.
5. The students can develop lesson and unit plans that contain clearly stated objectives, activities that parallel the objectives and appropriate evaluations that assess the students' performances on these objectives.
6. The students have a knowledge of assessment and evaluation techniques and can apply this knowledge to determine instructional and learning effectiveness.
7. The students are aware of the new technologies in education and can use them in their teaching specialties.
8. The students can apply learning theory to instructional design and educational planning.

9. The students know and can apply a number of teaching methods and techniques, such as lecture, discussion, higher order and divergent questioning, closure, set induction, and the use of examples and illustrations.
10. The students can use teacher evaluation techniques such as peer observation and interaction analysis.
11. The students can demonstrate the knowledge and understandings of philosophical and historical foundations of education.
12. The students can demonstrate a knowledge of current research in the area of teaching effectiveness.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization, or in two different teaching fields with a lesser degree of specialization in each. Specialties available for secondary school teaching are:

1. Art
2. Biology
3. Chemistry
4. Business Education
5. English
6. Industrial Arts
7. Spanish
8. Mathematics
9. Music
10. Physical Education
11. Physics
12. Physical Science
13. Social Science
14. Speech & Theatre
15. Computer Science as a second teaching field

Along with a teaching specialty a student may elect a supporting area (a minor) from any one of the above listed teaching specialties.

Under certain circumstances, it is possible for students to become qualified to teach art, music, or physical education at both the elementary and secondary school level. Students interested in such a program should consult the department involved.

Students interested in certification to teach driver education or to coach interscholastic sports should consult the Physical Education Department. A student emphasizing secondary education must also complete departmental course requirements under either Plan A or B.

Plan A: (Double Major)

This plan is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum State Department of Education requirements. Plan A is not available in social science, music, or in programs preparing teachers for both elementary and secondary education. **If Plan A is selected, the second teaching field is required.** Students may select an advisor in either department chosen as a major or from the Department of Education.

Plan B: (Single Teaching Field, Comprehensive Major)

This plan is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Students choosing a single teaching field may also qualify for certification in a second teaching field for grades 7-9 by taking specified courses in the second teaching field. Those interested in certification in a second teaching field for grades 7-9 should see the Dean of the School of Education and Psychology for course requirements.

Each department that prepares students for secondary school teaching has developed a program of studies to be pursued by students who choose to follow either of the above plans. Plan B is mandatory for majors in social science, music, and in certain programs preparing students for dual certification at both the elementary and secondary school level.

PROFESSIONAL EDUCATION COURSES

The following sequence of courses is to be completed by students planning to teach at the secondary or elementary level.

Freshman-Sophomore Year

Students who are planning to enter teaching should take Psy 110, Psychology of Human Development, and Educ 302, The Exceptional Child, during their first two years. Secondary education majors seeking an extended teaching certificate which

will also qualify them to teach the same area in the elementary school, must have a course in child development. Anyone preparing at the secondary level must have either Psy 110 Human Development or separate courses in General Psychology and Adolescent Psychology. All secondary education majors must take Educ 422 Reading in the Secondary Schools. Educ 422 may be taken the second semester of the sophomore year or during the junior or senior year on either the eight week or 16 week schedule.

Junior Year

Elementary Teaching

Psy 310	Educational Psychology*	2 hrs
Educ 300	Clinical Experiences	2 hrs
Educ 320	Structure of Teaching	
	Elementary	2 hrs
Educ 321	Microteaching	
	Elementary	2 hrs
Educ 370	Introduction to	
	Instructional Media	2 hrs

Secondary Teaching

Psy 310	Educational Psychology*	2 hrs
Educ 300	Clinical Experiences	2 hrs
Educ 330	Structure of Teaching	
	Secondary	2 hrs
Educ 331	Microteaching Secondary	2 hrs
Educ 370	Introduction to	
	Instructional Media	2 hrs
Educ 422	Reading in the Secondary	
	School**	2 hrs

*May be taken sophomore year

**May be taken the second semester of the sophomore year. This course is offered on both the eight and 16 week schedule.

Senior Year

The "Professional Semester" occupies one complete semester. For one-half of the semester, the student enrolls in professional semester courses and during the other one-half does supervised teaching (approximately eight weeks). COURSES OUTSIDE THE BLOCK SHOULD NOT BE SCHEDULED. Students are also discouraged from participation in outside activities during student teaching since this aspect of their program demands much time. Required courses are:

EDUCATION AND PSYCHOLOGY

EDUCATION

Elementary Teaching

Educ 322	Methods of Teaching Social Studies in Elementary School	2 hrs
Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
Educ 442	Student Teaching Elementary	8 hrs
Select two of the following:		
Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education and Psychology	2 hrs
OR other Education Courses approved by the Dean of Education and Psychology		

Secondary Teaching

Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
Educ	A course in Special Methods of Teaching the Major Field	2 hrs.
Educ 401	Use of Computer Software in the Classroom*	2 hrs
Educ 462	Student Teaching Secondary	8 hrs
Select one of the following:		
Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education and Psychology	2 hrs
OR other Education courses approved by the Dean of Education and Psychology		

Educ 422 Reading Secondary** 2 hrs
*Required of all secondary education majors unless a computer literacy course is offered in the teaching specialty department.

May be taken after the first semester of the sophomore year. May **not be substituted for electives. Offered on the regular and the eight week schedule.

Combination of Elementary and Secondary Teaching

For students majoring in art, music, foreign language, or physical education who desire certification at both the elementary and secondary levels, the following professional semester is recommended:

Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues in Education	2 hrs
Educ 464	Student Teaching, Combination of Secondary and Elementary Teaching in major field	8 hrs
Educ	Special Methods course in Major Field	2 hrs
Select one of the following:		
Educ 412	Individualized Curriculum Development	2 hrs
Educ 420	Introduction to Counseling	3 hrs
Educ 423	Classroom Management	2 hrs
Psy 412	Measurement-Evaluation in Education and Psychology	2 hrs
OR other Education courses approved by the Dean of Education and Psychology		

*A course in Human Development is required for certification for grades K-12. If Human Development is not taken, a student must have a course in general psychology plus both adolescent and child psychology.

Minor In Education

An academic minor has been created in teacher education for the B.A. and B.S. student who is thinking of pursuing a career in education at some future time. This minor is not developed to meet certification requirements, but to provide the student with an adequate background in professional education for career decision making and as a foundation on which the remaining certification requirements can be added. For example, a math student may have an interest in teaching but does not want to divert time away from a math major to complete the BSE requirements. This student could plan an education minor in that program and complete the remainder of the certification requirements after graduation.

Minor in Education (Elementary and Secondary)

Educ 302	The Exceptional Child	2 hrs
Educ 320	OR	
Educ 330	Structures of Teaching	2 hrs
Educ 321	OR	
Educ 331	Microteaching	2 hrs
Educ 300	Clinical Experiences	2 hrs
Educ 370	Instructional Media	2 hrs
Educ 402	Foundations of Education	2 hrs
Educ 432	Critical Issues	2 hrs
Educ 401	Use of Computer Software in the Classroom	2 hrs
Educ 342	OR	
Educ 422	Intro-Developmental Reading or Reading-Secondary School	2 hrs
Educ 412	Curriculum Development	2 hrs
		20 hrs

EDUCATION

FACULTY

Sandrin, Head; Anderson, Banks, Cagle, Highland, Merryman, Ray, Smith, Steere, Wiley, Wuch.

Students who select Education as a major field may choose to become qualified at either the elementary level, the secondary level or a combination of elementary and secondary (K-12).

Elementary majors must select an area of concentration totaling 21 hours in a designated curriculum area. The area of concentration may consist of a composite of courses in an area or it may consist of a structured series of courses that will lead to certification in grades 7-9. The following areas of concentration are available: Art, Computer Science, Early Childhood Education, English, Health and Physical Education, Mathematics, Music, Remedial Reading, Science, Social Studies, Speech and Theatre, or Special Education. For further information, an advisor should be consulted.

Students who choose to major in secondary education should refer to the section on secondary education which outlines specific professional education requirements. Subject matter requirements for the specific major are listed under the appropriate department, i.e., requirements for a major in Biology for the B.S. in Education degree are listed in the Biology Department section of the catalog.

OBJECTIVES FOR ELEMENTARY EDUCATION

The Elementary Education Major

1. has a strong background in general education and can use the knowledge and skills obtained in general education as a basis for the teaching content in the school setting;
2. can identify the general stages of child development and how these relate to educational planning;
3. can determine students' present level of performance and use the assessment for educational planning;
4. can identify developmental and behavioral problems and can make appropriate referrals;
5. can apply learning theory, instructional design, and educational planning to classroom environments;
6. can organize and manage a classroom that permits enough freedom to encourage independent and critical thought, and one that provides enough security that a child may feel safe;
7. is able to develop a learning program based on clearly stated instructional objectives which are functional and is able to parallel these objectives with learning

activities, relevant resources, and evaluations;

8. is able to match objectives and learning activities to individual needs and abilities of students;

9. can apply the new technology in education such as hardware and software, e.g., microcomputers, and can use them as learning activities to meet instructional goals and objectives;

10. can use a variety of teaching techniques in the classroom;

11. can incorporate into instructional planning the individual needs of students that may be evident in cultural diversity, values clarification, and mental and physical exceptionalities;

12. can use differentiated assessments to determine whether or not students' objectives are being met;

13. is able to apply classroom management techniques humanely and within the policies of the state and local school board;

14. recognizes the contributions of professional organizations which promote, advance, and improve the quality of education;

15. has a plan for personal professional growth and development which includes self evaluation;

16. advocates and practices sound professional ethics in and out of the school setting;

17. can utilize relevant educational research findings and information from the professional literature in designing an effective learning program for students;

18. can implement an instructional management system in a classroom setting;

19. can design appropriate instruction to meet a set of established competencies, e.g., Missouri Core Competencies.

BACHELOR OF SCIENCE WITH A MAJOR IN ELEMENTARY EDUCATION

DEPARTMENTAL REQUIREMENTS

		Semester Hours
General Education Requirements		51
Education Requirements		
Math 120	Mathematics for Elementary Teachers II	3
Eng 325	Children's Literature	3
Art 220	Art Education	3

Mus 332	Music for Elementary School	3
Educ 302	The Exceptional Child	2
Psy 110	Psychology of Human Development	5
Psy 310	Educational Psychology	2
HPER 311	Physical Education for the Elementary School	2
Educ 311	Science in the Elementary School	2
Educ 312	Problems of Teaching Arithmetic in Elementary School	2
Educ 340	Language Arts	2
Educ 342	Intro. to Developmental Reading	3
Educ 343	Assessing and Personalizing Reading Instruction	2
Educ 470	Diagnostic and Remedial Reading	3
Educ 320	Structure of Teaching Elementary	2
Educ 321	Microteaching-Elementary	2
Educ 300	Clinical Experiences	2
Educ 401	The Use of Computer Software in the Classroom	2
Educ 402	Foundations of Education	2
Educ 432	Critical Issues in Education	2
Educ 322	Teaching Social Science Elementary School	2
Educ 370	Instructional Media	2
Electives in Education		4
Educ 412	Individual Curriculum Development	2
Educ 420	Introduction to Counseling	3
Educ 423	Classroom Management	2
Psy 412	Measurement and Evaluation	2
Educ 442	Student Teaching	8
Area of Concentration		21
		132-138

Suggested Order of Study

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN ELEMENTARY EDUCATION

Freshman Year		Hours
1st Semester		
Course		
Psy 110	Psychology of Human Development	5
Eng 101	Composition	3

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PSYCHOLOGY

Math 111 Mathematics for Elementary Teachers I
Econ 180 American Economic System
Psy 120 College Orientation

2nd Semester

Math 120 Mathematics for Elementary Teachers II (Math 111)
Eng 102 Composition
Comm 100 or 131
Hist 110 or 120 U.S. History
Gen Ed (Literature)
HPER 101 P. E. Activity

Sophomore Year

1st Semester

Educ 302 Exceptional Child Psychology (Psy 110)
Bio 101 Introduction to Biology
Mus 110 Music Appreciation
Art 110 Introduction to Art
PSc 120 Gov't: U.S., State, & Local

2nd Semester

Psy 310 Educational Psychology (Psy 110)
Soc 110 or 152
HPER 370 School Health Education
Phys 100 Fundamentals of Physical Science
Art 220 Art Education

Junior Year

1st Semester

Mus 322 Music for Elementary School
HPER 311 P.E. for Elementary School
Geog 211 Regions & Nations
Educ 340 Language Arts
Educ 342 Developmental Reading
Eng 325 Children's Literature

2nd Semester

Educ 312 Problems of Teaching Arithmetic
Educ 322 Teaching Social Science-Elementary School
Educ 343 Individual Reading Instruction
Supporting Area

JUNIOR BLOCK

Educ 300 Clinical Experiences
Educ 320 Structures
Educ 321 Microteaching
Educ 370 Instructional Media

Senior Year

1st Semester

Educ 311 Science in Elementary School
Educ 401 Computer Software in Education
Educ 470 Diagnostic & Remedial Reading
Supporting Area 8-11

2nd semester

Professional Semester

For additional information contact:
Dr. Jim Sandrin
Office: 237 Taylor Hall
Phone: 625-9308

PSYCHOLOGY

FACULTY:

15 Volskay, Head; Babbitt, Griffin, Junkins, Murdock, Paige, Starkey

The Psychology Department offers three degrees: the Bachelor of Arts (BA), the Bachelor of Science (BS), and the Bachelor of Science in Education with a major in Psychology-Special Education (BSE). The BA and BS degrees provide an excellent foundation for students who wish to earn advanced graduate degrees in pursuit of a career in Psychology. The BSE degree is offered in cooperation with the Education Department. Graduates of that program will be certified to teach Special Education in K-9 and to teach Psychology at the secondary level. Some possible options with the BSE are given following the description of that program below.

BACHELOR OF ARTS IN PSYCHOLOGY

DEPARTMENTAL REQUIREMENTS

Semester Hours

General Education Requirements 46

Foreign Language 10

Psychology Requirements 40

Psy 110 Psychology of Human Development 5

OR

Psy 100 General Psychology and

Psy 300 Child Development (6)

Psy 320 Applied Statistics for the

Behavioral Sciences* 3

Psy 325 Computers in the

Behavioral Sciences 3

Psy 330 Experimental

Psychology** 5

Psy 411 Psychology of Sensation

and Perception

OR

Psy 442 Physiological Psychology 3

Psy 341 Social Psychology

OR

Psy 422 Theories of Personality 3

Psy 451 Learning and Memory 3

Psy 452 History and Systems of

Psychology 3

Psy 480 Senior Seminar 2

Psy 481 Senior Thesis 1

Psychology Electives 9

Supporting Area 21

The Supporting Area requires at least 21 hours in one of the following areas: Music, Economics / Finance, English / Literature, History, Journalism, Law Enforcement, Marketing/Management, Military Science, Political Science, Sociology, or other area approved by the advisor and the department.

Electives (from Psychology or other)

7
124

*formerly numbered 311

**formerly numbered 312

BACHELOR OF SCIENCE IN PSYCHOLOGY

Semester Hours

General Education 46

Psychology Requirements 40

Psy 110 Psychology of Human Development 5

OR

Psy 100 General Psychology and

Psy 300 Child Development (6)

Psy 320 Applied Statistics for the

Behavioral Sciences* 3

Psy 325 Computers in the

Behavioral Sciences 3

Psy 330 Experimental

Psychology** 5

Psy 411 Psychology of Sensation

and Perception

OR

Psy 442 Physiological Psychology 3

Psy 341 Social Psychology

OR

Psy 422 Theories of Personality 3

Psy 451 Learning and Memory 3

Psy 452 History and Systems of

Psychology 3

Psy 480 Senior Seminar 2

Psy 481 Senior Thesis 1

Supporting Area 21

The Supporting Area requires at least 21 hours of one of the following areas: Biology, Chemistry, Computer Science, Mathematics, Physics, or other science area approved by the advisor and the department.

Additional hours of science Electives (from Psychology or other)

10
7
124

*formerly numbered 311

**formerly numbered 312

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PSYCHOLOGY-SPECIAL EDUCATION

General Education Requirements 47 Psychology Requirements 34

Psy 110 Psychology of Human Development	5
Psy 302 The Exceptional Child	2
Psy 310 Educational Psychology	2
Psy 320 Applied Statistics for the Behavioral Sciences*	3
Psy 325 Computers in the Behavioral Sciences	3
Psy 330 Experimental Psychology**	5
Psy 382 Introduction to Behavior Management	3
Psy 432 Abnormal Psychology	3
Psy 442 Physiological Psychology OR	
Psy 411 Psychology of Sensation and Perception	3
Psy 412 Measurement and Evaluation in Education and Psychology	2
Psy 451 Learning and Memory	3

Education Requirements

Educ 312 Problems of Teaching Arithmetic in Elementary Schools	2
Educ 324 Introduction to Special Education	3
Educ 330 Structure of Teaching Secondary	
OR	
Educ 320 Structure of Teaching Elementary	2
Educ 331 Microteaching	
OR	
Educ 321 Microteaching	2
Educ 342 Introduction to Developmental Reading	3
Educ 343 Assessing and Personalizing Reading Instruction	3
Educ 370 Introduction to Instructional Media	2
Educ 402 Foundations of Education	2
Educ 403 Methods of Teaching the Mentally Handicapped	
OR	
Educ 404 Methods of Teaching Children with Learning Disabilities	
OR	

Educ 405 Methods of Teaching Children with Behavioral Disorders	3
Educ 407 Diagnostic and Prescriptive Teaching	3
Educ 420 Introduction to Counseling	2
Educ 430 Language Development of Exceptional Children	3
Educ 432 Critical Issues in Education	2
Educ 444 Student Teaching-Special Education	8
Educ 446 Practicum in Special Education	3
Educ 470 Diagnostic and Remedial Reading	2
Educ 474 Educational-Psychological Testing in Special Education	3

129

*formerly numbered 311
**formerly numbered 312

This program leads to a certification in K-9 in one of three areas—teaching the Learning Disabled, Behavior Disordered, or Mentally Handicapped. If the student wishes to be certified in all three areas, the three methods courses—Educ 403, 404, and 405 from the above program must be taken. To be certified K-12 either the practicum (Educ 446) or part of the student teaching (Educ 444) must be done at the high school level.

Minor in Psychology

Psy 110 Psychology	5
OR	
Psy 100 General Psychology and	
Psy 300 Child Development (6)	
Psy 320 Applied Statistics for the Behavioral Sciences*	3
Psy 330 Experimental Psychology**	5
At least one 3 credit hour 400 level psychology course	3
Psychology electives	5

21

*formerly numbered 311
**formerly numbered 312

Suggested Orders of Study

BACHELOR OF ARTS

Major Code 2000
Psychology Major

Freshman Year

1st Semester		Hours
Course		
Psy 110	Psychology of Human Development	5
Eng 101	Composition	3
Gen Ed	(Math 110, 130, or 131)	3
HPER 101	Intro to P.E.	2
HPER 160	Personal Health	2
Psy 120	College Orientation	1
		16

2nd Semester

Eng 102	Composition (Eng 101)	3
Hist 110 or 120		3
Gen Ed	(Humanities or Fine Arts)	3
Biology		4
Elective		3
		16

Sophomore Year

1st Semester		Hours
Psy 320	Applied Statistics (Psy 100 or 110)	3
Gen Ed	(Phys 100)	5
Gen Ed	(Humanities or Fine Arts)	3
Gen Ed	(Literature)	3
Supporting Area		3
		17

2nd Semester

Psy 325	Computers in Behavioral Science** (Psy 320)	3
Gen Ed	(Comm. 100)	3
Elective in Supporting Area		3
Econ 180	American Economic System or other Econ course	3
Elective		3-5
		15-17

Junior Year

1st Semester		Hours
Psy 330	Experimental Psych (Psy 325)	5
Foreign Language 101		5
Electives in Supporting Area		3
Electives		3-5
		16-18

2nd Semester

Psy 411	Sensation & Perception** (Psy 300)	
OR		
Psy 422	Theories of Personality** (Psy 110 or 100)	3
PSc 120	Gov't: U.S., State, Local	3
Foreign Language 102**		5
Elective in Supporting Area		3
Psy 451	Learning & Memory** (Psy 310 or 320)	3
		17

Senior Year

1st Semester		Hours
Psy 442	Physiological Psy* (Psy 330)	
OR		
Psy 341	Social Psychology (Psy 320)	3
Psy 452	History & Systems* (Psy 320)	3
Psy 480	Senior Seminar	2

EDUCATION AND PSYCHOLOGY

PSYCHOLOGY

Electives in Supporting Area
Electives
Psy Elective

2nd Semester
Psy 481 Senior Thesis**
Psy 499 Independent Study (Consent)
Psychology Elective
Elective in Supporting Area
Elective

*Offered Fall Semester Only
**Offered Spring Semester Only

() Prerequisite

Supporting Areas

Art
Music
Economic/Finance
History
Law Enforcement
Military Science
Sociology
English/Literature
Journalism
Marketing/Management
Political Science
Others by permission

BACHELOR OF SCIENCE

Major Code 2000

Psychology Major

Freshman Year

1st Semester

Course Hours

Psy 110 Psychology of Human Development 5
Eng 101 Composition 3
Math 110, 130, or 131 3
HPER 101 Intro to P.E. 2
HPER 160 Personal Health 2
Psy 120 College Orientation 1

2nd Semester

Eng 102 Composition (Eng 101) 3
Bio 101 General Biology 4
Gen Ed (Humanities and Fine Arts) 6
Literature 3

Sophomore Year

1st Semester

Psy 320 Applied Statistics (Psy 100 or 110) 3
Phys 100, 151 or Chem 101 (Math 131 or 130) 5
PSc 120 Gov't: U.S., State, & Local 3
Hist 110 or 120 3
Elective in Supporting Area 3-5

2nd Semester

Psy 325 Computers in Behavioral Sciences** (Psy 320) 3
Econ 180 American Economic System 3
Comm 100 Speech Techniques 3
Gen Ed (Humanities or Fine Arts) 3
Elective in Supporting Area 3-5

3 Junior Year
3 1st Semester
3 Psy 330 Experimental Psychology (Psy 325) 5
17 Psychology Elective 3
Elective in Supporting Area 6
Elective 3

2nd Semester

6 Psy 411 Sensation & Perception** (Psy 330) 5
3 OR
16 Psy 422 Theories of Personality** (Psy 110 or 100) 3
Psy 451 Learning & Memory** (Psy 310 or 320) 3
Elective in Supporting Area 3
Psychology Elective 3
Science 5

Senior Year

1st Semester

Psy 442 Physiological Psychology* (Psy 330) 5
OR
21 Psy 341 Social Psychology* (Psy 320) 3
21 Psy 452 History & Systems* (Psy 320) 3
21 Psy 498 Seminar (Consent) 3
21 Psy 480 Senior Seminar 2
Elective in Supporting Area 3
Electives 3

2nd Semester

Psy 499 Independent Study (Consent) 3
Psy 481 Senior Thesis 1
Electives 6
Science 5

*Offered Fall Semester Only

**Offered Spring Semester Only

() Prerequisite

OTHER REQUIREMENTS

Ten hours are required from Math, Computer Science, Chemistry, Biology, and/or Physics, in addition to all other requirements. These replace the foreign language requirement.

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0846

Psychology-Special Education Major

Freshman Year

1st Semester

Course Hours
Psy 110 Human Growth & Development 5
Eng 101 Composition 3
HPER 101 Intro to P.E. 2
Psy 120 College Orientation 1
Gen Ed 6

2nd Semester

Psy 382 Intro to Behavior Management** 3
Eng 102 Composition (Eng 101) 3
Psy 302 Exceptional Child 2
Math 110, 130 or 131 3
Gen Ed 5-6

15-17

Sophomore Year

1st Semester

Psy 320 Statistics (Psy 110 or 100 & Math 130 or 131) 3
Educ 324 Introduction to Special Education* 3
Gen Ed 10-12
16-18

2nd Semester

Psy 325 Computers in Behavioral Sciences** (Psy 320) 3
Psy 310 Educational Psychology 2
Educ 342 Intro to Developmental Reading 3
Gen Ed 9
17

Junior Year

1st Semester

Psy 330 Experimental Psych (Psy 325) 5
Educ 330 Structures or Educ 320 2
Educ 331 Microteaching or Educ 321 2
Psy 442 Physiological Psychology 3
OR
Psy 411 Sensory and Perception 3
Educ 430 Language Development for Exceptional Children* 3
Educ 370 Instructional Media 2
17

2nd Semester

Psy 432 Abnormal Psychology** (7 hrs. Psy) 3
Educ 404 Methods of Teaching Children with Learning Disabilities 3
Educ 470 Diagnostic & Remedial Reading 2
Educ 343 Assessing & Personalizing Reading Instruction** 3
Educ 474 Educational-Psychological Testing 3
Psy 451 Learning & Memory** 3
17

Senior Year

1st Semester

Educ 446 Practicum in Special Education 3
Gen Ed 3
Educ 420 Introduction to Counseling 2
Educ 403 Methods of Teaching the Mentally Handicapped* 3
Educ 405 Methods of Teaching Children with Behavior Disorders* 3
Educ 312 Problems in Teaching Arithmetic 2
16

2nd Semester

Psy 412 Measurement & Evaluation 2
Educ 402 Foundations of Education 2
Educ 432 Critical Issues 2
Educ 407 Diagnostic Prescriptive Teaching** 3
Educ 444 Student Teaching 8
17

*Offered Fall Semester Only

**Offered Spring Semester only

() Prerequisite

For additional information contact:
Dr. J. Truman Volskay
Office: 209 Taylor Hall
Phone: 625-9306

PHYSICAL EDUCATION

HEALTH, PHYSICAL EDUCATION AND RECREATION

FACULTY:

Oldham, Head; Beard, Carrender, Ellis, D. Evans, P. Evans, Frazier, Giesselmann, Lampe, Lipira, Phillips, Turner, Williams

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level, or a combination of both elementary and secondary levels. Students planning to major in this field should refer to page of this catalog where the Teacher Education Program is described. Students planning to teach at both elementary and secondary levels should select the K-12 Plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-8 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

Objectives for Physical Education, Grades K-12

The student can: (1) develop units of instruction in physical education that are appropriate to grades K-12, (2) demonstrate competency in teaching physical education at the various grade levels, (3) develop measurement and evaluation techniques for physical education activities in grades K-12, (4) identify characteristics which make one group different from another and effectively plan for the needs of individuals who represent this cultural diversity, (5) develop a unit of instruction appropriate for adapted physical education activities for exceptional children, (6) identify high risk areas of the physical education program and can incorporate sound principles related to safety and supervision in planning.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION

K-12 One Teaching Field

	Semester Hours
General Education Requirements	46
Physical Education Requirements	51
Bio 306 Human Physiology & Anatomy*	5

HPER 251 Fundamentals of Physical Education Activities I*	3
HPER 252 Fundamentals of Physical Education Activities II*	3
HPER 255 Theory and Practice of Dance and Exercise*	2
HPER 310 The Elementary School Physical Education Program*	3
HPER 312 Teaching Elementary School Physical Education*	3
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 332 Rhythmic Form and Analysis*	2
HPER 335 History and Philosophy of Physical Education*	2
HPER 340 Motor Learning in Physical Education*	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education*	2
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 370 School Health Education (Elem)*	3
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
HPER 470 Administration of Physical Education*	2
SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:	
HPER 350 Theory of Basketball*	2
HPER 351 Theory of Football*	2
HPER 352 Theory of Track & Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2

Education Certification Requirements

(See Pages 118-120)	30
	127
*See Prerequisites	

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION

7-12 TWO TEACHING FIELDS

	Semester Hours
General Education Requirements	46
Physical Education Requirements	37
Bio 306 Human Physiology & Anatomy*	5

HPER 251 Fundamentals of Physical Education Activities I*	3
HPER 252 Fundamentals of Physical Education Activities II*	3
HPER 255 Theory and Practice of Dance and Exercise*	2
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 335 History and Philosophy of Physical Education*	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education	2
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
HPER 470 Administration of Physical Education*	2
SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:	
HPER 350 Theory of Basketball*	2
HPER 351 Theory of Football*	2
HPER 352 Theory of Track & Field*	2
HPER 353 Theory of Soccer*	1
HPER 354 Theory of Volleyball*	1
HPER 360 Theory of Baseball*	2

Education Certification Requirements

(See Pages 118-120)	30
Unrestricted Electives or Second Teaching Field	14
	127

*See Prerequisites

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN PHYSICAL EDUCATION

K-8 TWO TEACHING FIELDS

	Semester Hours
General Education Requirements	46
Physical Education Requirements	33
Bio 306 Human Physiology & Anatomy*	5
HPER 310 The Elementary School Physical Education Program	3
HPER 312 Teaching Elementary School Physical Education*	3
HPER 321 Theory and Analysis of Selected Team Sports*	3
HPER 332 Rhythmic Form & Analysis*	2

EDUCATION AND PSYCHOLOGY

PHYSICAL EDUCATION

HPER 335 History and Philosophy of Physical Education*	2
HPER 340 Motor Learning in Physical Education*	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 345 Tests & Measurements in Physical Education*	2
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 370 School Health Education(Elm)*	3
HPER 431 Physiology of Exercise*	2

Education Certification Requirements
(See Pages 118-120) **30**
Unrestricted Elective or Second Teaching Field **17**
126

*See Prerequisites

MINOR IN PHYSICAL EDUCATION (NON-TEACHING MINOR)

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 335 History and Philosophy of Physical Education*	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 365 Socio-Psychological Aspects of Physical Education*	2
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3

SELECT ONE OF THE FOLLOWING:
HPER 251 Fundamentals of Physical Education Activities I* 3
HPER 252 Fundamentals of Physical Education Activities II* 3
HPER 321 Theory and Analysis of Team Sports 3

*See Prerequisites

MINOR IN COACHING

	Semester Hours
Bio 306 Human Physiology & Anatomy*	5
HPER 150 Rules and Officiating of Team Sports	3
HPER 342 Kinesiological Approach to Movement*	3
HPER 450 Prevention and Care of Injuries*	3

SELECT A MINIMUM OF FIVE HOURS FROM THE FOLLOWING:

HPER 350 Theory of Basketball	2
HPER 351 Theory of Football	2
HPER 352 Theory of Track and Field	2
HPER 353 Theory of Soccer	1
HPER 354 Theory of Volleyball	1
HPER 360 Theory of Baseball	2

*See Prerequisites

MINOR IN ATHLETIC TRAINING

	Semester Hours
Bio 306 Human Physiology and Anatomy**	5
HPER 220 First Aid	2
HPER 342 Kinesiological Approach to Movement*	3
HPER 431 Physiology of Exercise*	2
HPER 450 Prevention and Care of Injuries*	3
HPER 451 Advanced Athletic Training*	2

SELECT ONE OF THE FOLLOWING:
RAD 111 Medical Terminology 3
DH 310 Nutrition 2

*See Prerequisites

HEALTH EDUCATION CERTIFICATION FOR PHYSICAL EDUCATION MAJORS AND BIOLOGY MAJORS

	Semester Hours
Soc 121 Family	3
HPER 160 Personal Health	2
Bio 306 Human Physiology and Anatomy*	5
Psy 221 Psychology of Personal Adjustment	3
HPER 370 School Health Education (Sec)*	3
DH 310 Nutrition	2
Chem 100 Introductory Chemistry*	2
OR	
Bio 211 Microbiology*	5

*See Prerequisites

DRIVER EDUCATION CERTIFICATION

	Semester Hours
HPER 220 First Aid	2
HPER 230 Safety	2
HPER 361 Introduction to Driver Education*	3

HPER 362 Advanced Driver Education*	3
Psy 110 Psychology of Human Development	5
OR	
Psy 301 Adolescent Psychology*	3

SELECT 6-8 SEMESTER HOURS FROM THE FOLLOWING:

LE 100 Introduction to Law Enforcement	3
Psy 221 Psychology of Personal Adjustment	3
Educ 370 Introduction to Instructional Media	2
Soc 352 Group Dynamics*	3

*See Prerequisites

Suggested Orders of Study

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0835
Physical Education Major K-12

Freshman Year

Course	Hours
Eng 101 Composition	3
PSc 120 Govt., U.S., State, Local	3
Psy 110 Psy of Human Development	5
Comm 100 Oral Communication	3
Psy 120 College Orientation	1
	15

2nd Semester

Eng 102 Composition	3
Hist 110 or 120 U.S. History	3
Bio 121 General Zoology	4
Math 110 Introduction to College Math	3
Gen Ed Elective	3
	16

Sophomore Year

Course	Hours
1st Semester	
HPER 251 Fund of PE Activities I	3
Gen Ed Eng 180 or 181	3
Gen Ed Music 110 or Art 110 or Theatre 110	3
Gen Ed Elective	3
Phys 110 Fund of Physical Science or Chemistry 100	5
	17

2nd Semester

HPER 252 Fund of PE Activities II	3
Bio 306 Human Physiology & Anatomy	5
Psy 310 Educational Psychology	2
HPER 255 Theory of Dance	2
HPER 335 History & Philosophy of PE	2
Coaching Theory Course	1-2
	15-16

Junior Year

Course	Hours
1st Semester	
HPER 310 Elementary School PE Program	3
HPER 321 Team Sports	3

COURSES/EDUCATION

HPER 340 Motor Learning
 HPER 332 Rhythmic Form and Analysis
 Coaching Theory Course
 HPER 370 School Health (Elem)
 Educ 302 Exceptional Child

2nd Semester

HPER 312 Teaching Elementary School PE
 HPER 342 Kinesiology
 HPER 345 Tests & Measurements in Physical Education

Coaching Theory Course
 Educ 300 Clinical Experience
 Educ 330 Structure of Teaching
 Educ 331 Microteaching
 Educ 370 Introduction to Instructional Media

Senior Year

1st Semester

HPER 365 Socio-Psy Aspects of Physical Education
 HPER 431 Physiology of Exercise
 HPER 470 Administration of Physical Education
 HPER 450 Care & Prevention of Injuries
 Educ 422 Reading Secondary School
 Electives

2nd Semester

Educ 338 Teaching Health & PE
 Educ 401 Computer Software
 Educ 402 Foundations of Education
 Educ 432 Critical Issues In Education
 Educ 464 Student Teaching
 SELECT ONE:
 Educ 412, Educ 420, Educ 423, or Psy 412

BACHELOR OF SCIENCE IN EDUCATION

Major Code 0835

Physical Education Major and Health Certification

Freshman Year

1st Semester

Course
 HPER 160 Personal Health
 Eng 101 Composition
 Gen Ed [PSc 120 Govt., U.S., State, Local]
 Gen Ed [Comm 100]
 Psy 110 Psychology of Human Development
 Psy 120 College Orientation

2nd Semester

Bio 121 Zoology
 Eng 102 Composition
 Gen Ed [Hist 110 or Hist 120]
 Gen Ed [Fine Art]
 Gen Ed [Math 110 or Higher]

Sophomore Year

1st Semester

HPER 251 Fundamentals of PE Activities I
 Psy 221 Psychology Personal Adjustment
 Soc 121 Family
 Chem 100 Intro Chemistry or Bio 221 Microbiology
 Gen Ed [Literature]

3 2nd Semester
 2 HPER 252 Fundamentals of PE Activities II
 2 HPER 255 Theory of Dance
 3 HPER 335 History & Philosophy of PE
 2 Psy 310 Educational Psychology
 18 Bio 306 Human Physiology & Anatomy
 Gen Ed [Fine Art]

Junior Year

1st Semester

2 HPER 321 Team Sports
 1-2 HPER 370 School Health (Sec)
 2 Coaching Theory Course
 2 Educ 300 Clinical Experience
 2 Educ 370 Instructional Media
 2 Educ 300 Structure of Teaching
 17-18 Educ 331 Microteaching

2nd Semester

HPER 342 Kinesiology (Bio 306)
 HPER 345 Tests & Measurements in Physical Education
 Coaching Theory Courses 3-4
 Educ 302 Exceptional Child
 DH 310 Nutrition
 Gen Ed [Elective]

Senior Year

1st Semester

2 HPER 431 Physiology of Exercise
 2 HPER 450 Prevention & Care of Injuries
 2 HPER 470 Administration of Physical Education
 8 HPER 365 Socio-Psychological Aspects of Athletics
 2 Educ 422 Reading Secondary School
 18 Electives

2nd Semester

Educ 338 Teaching Health & PE
 Educ 401 Computer Software
 Educ 402 Foundations of Education
 Educ 432 Critical Issues in Education
 Educ 464 Student Teaching
 SELECT ONE:
 Educ 412, Educ 420, Educ 423, or Psy 412

For further information contact:
 Dr. Max Oldham
 Office: 214 PE
 Phone: 625-9316

SCHOOL OF EDUCATION AND PSYCHOLOGY COURSE DESCRIPTIONS

EDUCATION (Educ)

Techniques of Reading (F,S)

13.1010-010 2 hrs. cr.
 Designed to improve and enhance reading skills. Vocabulary, comprehension and rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment and flexibility.

Clinical Experiences (F,S)

13.0101-300 2 hrs. cr.
 Students are assigned to elementary or secondary schools for 56 clock hours. In addition students will have eight hours of class time on campus. The classes begin on the first regularly scheduled Tuesday and meet every other Tuesday until the end of the semester. Students have the opportunity to work with a classroom teacher in their specialized area.

The Exceptional Child (F,S)

13.1004-302 2 hrs. cr.
 A series of awareness experiences dealing with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Science in the Elementary School (F,S)

13.1316-311 2 hrs. cr.
 Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery, and inquiry lessons, and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans, learning kits, and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 (Microteaching). Educ 321 may be taken concurrently with the course.

Problems of Teaching Arithmetic in Elementary Schools (F,S)

13.1311-312 2 hrs. cr.
 (See Math 312) Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

EDUCATION AND PSYCHOLOGY

COURSES/EDUCATION

Introduction to Early Childhood Education (F) (Demand)

13.1204-316 3 hrs. cr.
Observation of different types of early childhood programs. A special emphasis on working with parents in educating young children. Experiences involve planning for instruction and using community resources for early childhood experiences. Students will be encouraged to work as volunteer teacher aides during the course.

Early Childhood Education Curriculum and Materials (F) (Demand)

13.1204-319 3 hrs. cr.
Provides a background in curriculum and materials for the young child. Students will observe children involved in early childhood programs, plan and conduct a lesson with children in each of the major curriculum areas, under supervision, and construct various teaching materials. Prerequisite: Psy 310.

Structure of Teaching Elementary (F,S)

13.1202-320 2 hrs. cr.
Strategies relating to teaching in the elementary school. The acquisition of instructional skills and strategies related to the teacher-learner situation. Classroom organization and management, instructional innovations, instructional management system, performance based teacher evaluation (PBTE) and both verbal and non-verbal interaction skills. Course is team taught. Enrollment in Microteaching (Educ 321) must be concurrent. Prerequisites: Psy 110, Psy 300, and Psy 310 (Educ 300, 320, 321, and 370 are taken concurrently.)

Microteaching (F,S)

13.1202-321 2 hrs. cr.
A required part of Educ 320 to be taken concurrently with it. Short teaching episodes are prepared, taught and analyzed via video-tape. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading.)

Teaching Social Studies in Elementary School (F,S)

13.1318-322 2 hrs. cr.
An introduction to the instructional materials and methods of teaching social studies in the Elementary School.

Introduction to Special Education (F,S)

13.1001-324 3 hrs. cr.
An overview of all areas of special education but not intended as a methods course for any specific disability. Survey of research related to the area of LD, MH, BD. Prerequisites: Educ 302, Psy 110.

Structure of Teaching Secondary

13.1205-330 2 hrs. cr.
Instructional skills, strategies and techniques. Development of the secondary school, classroom organization and management, instructional innovations, instructional management system, performance based teacher education (PBTE) and both verbal and non-verbal interaction. Course is team taught. Enrollment in Microteaching (Educ 331), must be concurrent. Prerequisites: Psy 110, Psy 301, (Educ 300, 330, 331, 370 are taken concurrently.)

Microteaching (F,S)

13.1205-331 2 hrs. cr.
A required part of Educ 330 and must be taken concurrently with it. Short teaching episodes are prepared, taught, and analyzed via videotape recordings. The basic concern is with the demonstration of effective teaching skills. (Performance based, credit-non-credit grading.)

Teaching English and Language Arts in Secondary School (S)

13.1305-332 2 hrs. cr.
An introduction to the instructional materials and methods of teaching English, speech and foreign language. Part of the Professional Semester.

Teaching Science in Secondary School (S)

13.1316-333 2 hrs. cr.
An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

Teaching Social Science in Secondary School (S)

13.1317-334 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching social science. Part of the Professional Semester.

Teaching Music in Secondary School (S)

13.1312-335 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching music. Part of the Professional Semester.

Teaching Business in Secondary School (S)

13.1303-336 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching business. Part of the Professional Semester.

Teaching Art in Secondary School (F,S)

13.1314-337 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching art. Part of the Professional Semester.

Teaching Health and Physical Education in Secondary School (F,S)

13.1314-338 2 hrs. cr.
An introduction to the instructional planning,

materials, and methods of teaching physical education and health. Part of the Professional Semester.

Teaching Mathematics in Secondary School (S)

13.1311-339 2 hrs. cr.
An introduction to the instructional planning, materials, and methods of teaching mathematics. Part of the Professional Semester.

Language Arts (F,S)

13.1202-340 2 hrs. cr.
Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

Teaching Industrial Arts in Secondary School (F,S)

13.1309-341 2 hrs. cr.
An introduction to curriculum, methods, and materials for teaching the various industrial arts. Part of the Professional Semester.

Introduction to Developmental Reading (F,S)

13.1205-342 3 hrs. cr.
First course in Reading Methods. Different approaches to teaching reading are studied and compared to individual learning styles of children.

Assessing and Personalizing Reading Instruction (F,S)

13.1205-343 2 hrs. cr.
Preventive and/or corrective methods and devices for teaching reading in the regular classroom. Emphasis on techniques for individualization and various types of grouping procedures. Prerequisite: Educ 342

Teaching Speech and Theatre in Secondary School (S)

13.1205-344 2 hrs. cr.
Techniques, methods, and course content used in teaching speech and theatre. Part of the professional semester.

Teaching Foreign Language in Secondary Schools (S)

13.1205-345 2 hrs. cr.
An introduction to the instructional materials and the methodology used in the teaching of foreign languages at the secondary level.

Teaching Computer Science in Secondary School (S)

13.1314-346 2 hrs. cr.
An introduction to instructional planning, materials selection, and methods of teaching computer science/data processing subjects in secondary school. Part of Professional Semester.

Introduction to Instructional Media (F,S)

13.0301-370 2 hrs. cr.
Preparation and use of the various audio-visual materials and devices, with emphasis on preparation. Enrollment is limited to education majors. (Performance based credit-non-credit grading.) Taken concurrently with 320/330. Students are urged to enroll in the section designated for their teaching area, either elementary of secondary.

Use of Computer Software in the Classroom (F,S)

13.0301-401 2 hrs. cr.
Use of microcomputers, with emphasis on evaluation, selection, and uses of educational software.

Foundations of Education (F,S)

13.0901-402 2-3 hrs. cr.
Historical, philosophical, and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice, and application of the teaching-learning theory and practice.

Methods of Teaching the Mentally Handicapped (F)

13.1006-403 3 hrs. cr.
Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302.

Methods of Teaching Children With Learning Disabilities (S)

13.1006-404 3 hrs. cr.
Designed for the prospective or inservice teacher of learning disabled students. Diagnosis, evaluation, programming, instructional approaches, instructional strategies, and materials appropriate for use with learning disabled students. Prerequisite: Educ 302.

Methods of Teaching Children With Behavioral Disorders (F)

13.1005-405 3 hrs. cr.
Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302.

Methods of Teaching the Severely Handicapped (S)

13.1006-406 3 hrs. cr.
Practices and problems in developing curriculum for severely mentally retarded and multiple handicapped children and adolescents. Study of appropriate materials, organization and instructional processes. Prerequisite: Educ 302.

Diagnostic and Prescriptive Teaching (S)

13.0301-407 3 hrs. cr.
Use of formal test results to design specific level tests necessary to develop individualized educational plans (IEP's) for handicapped or nonhandicapped learners. Appropriate for both regular and special education majors.

Individualized Curriculum Development (F,S)

13.0301-412 2-3 hrs. cr.
Designed for elementary and secondary education majors. Instructional programming for the individual student, strategies for individualizing and mastery learning, grouping for instruction, organizing a variety of learning activities and materials, instructional evaluation, home-school-community relations, and comparing alternative educational systems.

Introduction to Counseling (F,S)

13.1101-420 3 hrs. cr.
Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.

Teaching Reading in Secondary Schools (F,S)

13.1315-422 2 hrs. cr.
Familiarizes prospective secondary teachers with reading instruction. Stresses the importance of reading in all content areas. Discusses secondary reading programs which include adaptive and tutorial strategies. Required for certification of all secondary education majors.

Classroom Management (F,S)

13.1299-423 2 hrs. cr.
Concepts, skills and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy, and other management techniques.

Language Development of Exceptional Children (F)

13.1012-430 3 hrs. cr.
Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Critical Issues in Education (F,S)

13.0401-432 2-3 hrs. cr.
Exploration of current problems with special regard to legal and professional role of school personnel, their relationship to federal and state governments, and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents, and the community. Part of Professional Semester.

Utilizing Family and Community Resources for the Young Child (S)

13.1204-433 2 hrs. cr.
Designed to acquaint the prospective teacher of young children with the resource persons, funding agencies, medical services, special help agencies, and job opportunities available to them in the community.

Materials and Methods of Individualizing Instruction (S)

13.0301-435 3 hrs. cr.
Concepts, methods, and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 320.

Student Teaching-Elementary (F,S)

13.1202-442 8 hrs. cr.
Supervised participation in teaching on the elementary level in an off-campus school. Prerequisites: 100 semester hours with a GPA of 2.5, completion of the Junior Block and admission to the Teacher Education Program. Course assignments will include full-time supervised teaching for one-half of the semester. Students whose last names begin with the letters A-L should plan to enroll in first semester: M-Z in second semester. Conferences scheduled as needed. Specific assignment made by the Director of Student Teaching. Arrangements for assignment made in the semester preceding the actual student teaching block.

Student Teaching-Special Education (F,S)

13.1202-444 4-8 hrs. cr.
Teaching the handicapped child shall immediately follow Educ 442 or 462 or 464. Prerequisite: See Educ 442. Course assignment consists of a minimum of 5 hours a week of student teaching for each one hour of credit per one-half semester. Conferences scheduled as needed.

Practicum in Special Education (F,S)

13.1202-446 3 hrs. cr.
Clinical experience in special education settings with one of four handicapped populations; learning disabled (LD), mildly mentally retarded (MR), behaviorally/emotionally disordered (BD), or severely handicapped (SH), learners. A three credit practicum or student teaching experience

EDUCATION AND PSYCHOLOGY

COURSES/PSYCHOLOGY

will be needed in each area of certification. Includes both time in special education classes and on-campus seminar sessions. Prerequisites: Educ 324 and 3 credits of special education methods course.

Student Teaching-Secondary (F,S)

13.1205-462 4-8 hrs. cr.
Supervised participation in teaching on the secondary level in an off-campus school. Prerequisite: Completion of the Junior Block, Admission to Teacher Education, and a minimum of 100 semester hours with a GPA of 2.5. Assignment consists of full-time teaching for one-half semester with professional courses to be taken during the other half of semester. Students whose last names begin with the letters A-L should plan to enroll in the first semester; M-Z in second semester. Conferences scheduled as needed. Specific assignment made by the Director of Student Teaching.

Student Teaching-EL-SEC (K-12) (F,S)

13.1205-464 8 hrs. cr.
Supervised participation in teaching on the secondary and elementary levels in an off-campus school. For students in specialized areas such as Art, Music, Psychology-Special Education, and Physical Education who are preparing to be certified for teaching their specialty at both levels. Prerequisite: See Educ 442.

Diagnostic and Remedial Reading (F,S)

13.1315-470 3 hrs. cr.
Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials, and management being stressed. Prerequisites: Educ 342, Educ 343.

Practicum in Diagnosis of Reading Difficulties (F)

13.1205-471 3 hrs. cr.
Practice of administering, interpreting, and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, and Educ 474 or Psy 471.

Practicum in Remediation of Reading Difficulties (S)

13.1315-472 3 hrs. cr.
Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educational-Psychological Testing in Early Childhood, Remedial Reading, and Special Education (S)

13.0604-474 3 hrs. cr.
A comprehensive study of various categories of standardized test instruments commonly used in Regular Education, Early Childhood Education, Special Education, Remedial Reading, and

State Board of Education operated schools. Course includes issues and regulations and demonstration and administration of representative evaluative instruments in each of eleven categories of tests. Emphasis is on multi-dimensional evaluation and program planning. Students select a track in either Early Childhood or Special Education or Remedial Reading.

Seminar in Problems of Education (Demand)

13.9999-498 1-3 hrs. cr.
A weekly seminar for upper division majors. Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

Independent Study (F,S)

13.9999-499 1-3 hrs. cr. Structured by the advisor with approval of department head. Prerequisite: Advanced standing in the major field and approval of advisor and department head.

*Students who are elementary education majors but who are certifying in special education must take 4 hrs. of student teaching in the regular elementary classroom i.e., (Educ 442) and 4 hours of student teaching in the special classroom, i.e. (Educ 444)

*All education majors must take 8 hours of student teaching.

PSYCHOLOGY (Psy)

General Psychology (F,S)

42.0101-100 3 hrs. cr.
Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the General Education requirement; however, Education majors should substitute Psy 110. No credit if Psy 110 has been completed.

General Psychology-Honors (F)

42.0101-100 3 hrs. cr.
Basically the same topics as General Psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor. No credit if Psy 110 has been completed.

Self-Awareness and Career Planning

42.0601-105 1 hr. cr.
Materials and methods to help students investigate their present life styles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

Psychology of Human Development (F,S)

42.0701-110 5 hrs. cr.
Introductory course stressing basic psychological mechanisms underlying human behavior and mental processes, with special emphasis on the developmental course of these mechanisms. Fulfills the Behavioral and Social Sciences General Education requirement and is recommended for Psychology and Education majors. No credit if Psy 100 has been completed.

College Orientation (F,S)

42.9999-120 1 hr. cr.
A requirement for all incoming freshmen, College Orientation is designed to provide a small group setting for open communication between students in an informal situation. The content focuses on practical knowledge necessary for academic survival, advisor assignment, and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

Psychology of Personal Adjustment (F)

42.9999-221 3 hrs. cr.
Selected principles of adjustment in psychology, therapeutic approaches to improving adjustment, and research being conducted in the area. Enables the student to be more assertive and personally satisfied.

Special Topics in Psychology (Demand)

42.9999-298 1-3 hrs. cr.
Special topics in Psychology not normally included in other courses. Prerequisites to be determined by the department.

Child Development (F,S)

42.0701-300 3 hrs. cr.
Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100. No credit if Psy 110 has been completed.

Adolescent Psychology (F,S)

42.0701-301 3 hrs. cr.
Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100. No credit if Psy 110 has been completed.

The Exceptional Child (F,S)

13.1001-302 2 hrs. cr.
A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community, and legislation which determines school policy. Prerequisite: Psy 110 or Psy 300 or Psy 301.

EDUCATION AND PSYCHOLOGY

COURSES/PHYSICAL EDUCATION

Educational Psychology (F,S)

13.0801-310 2-3 hrs. cr.
Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning, and the environmental influences of behavior. Prerequisite: Psy 110 or Psy 300 or Psy 301.

Applied Statistics for the Behavioral and Natural Sciences (F,S)

42.1501-320 3 hrs. cr.
Descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 or Psy 110 and Math 110, 130, or 131.

Computers in the Behavioral Sciences (S)

42.1301-325 3 hrs. cr.
Applications of computers in the behavioral sciences with an emphasis on statistical analysis, data collection, and report generation. Prerequisite: Psy 320

Experimental Psychology (F,S)

42.0801-330 5 hrs. cr.
Research process as a foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325

Social Psychology (F)

42.1601-341 3 hrs. cr.
Social behavior of the individual, interests and tendencies that grow out of community life in terms of inter-group and inter-personal relationships. Prerequisite: Psy 320

Introduction to Behavior Management (S)

42.9999-382 3 hrs. cr.
Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 110 or Psy 100.

Psychology of Sensation and Perception (S)

42.0801-411 3 hrs. cr.
Exploration of the nature of perception through an examination of the action of the various sensory systems, such as vision and audition. Prerequisite: Psy 110 or 100. At least one course in biology is strongly recommended.

Measurement and Evaluation in Education and Psychology (F, S)

42.1301-412 2-3 hrs. cr.
Theory and problems of measurement and evaluation. Practice in analysing and interpreting

test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.

Theories of Personality (S)

42.1001-422 3 hrs. cr.
Major contemporary theories of personality, including relevant validation research and over-all evaluation of the application of each theory. Prerequisite: Psy 100 or Psy 110 and consent of instructor.

Abnormal Psychology (S)

42.9999-432 3 hrs. cr.
Recognition and classification of the systems of mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders." Prerequisite: 7 hours of Psychology or permission of the instructor.

Clinical Psychology (F)

42.0201-435 3 hrs. cr.
Survey which includes history, current methods, critical issues, evaluation, and predictions about future developments. Prerequisites: senior standing or at least 15 hours of psychology.

Physiological Psychology (F)

42.1101-442 3 hrs. cr.
Structure and function of the nervous system from the individual neuron to the behavior of the organism. The biological basis of the following behaviors: movement, sleep, homeostasis, sexual behavior, emotion, learning, language, and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100 or Psy 110. At least one course in Biology is strongly recommended.

Learning, Memory, and Cognition (S)

42.0301-451 3 hrs. cr.
Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence, and psychology-law. Prerequisite: Psy 330.

History and Systems of Psychology (F)

42.9999-452 3 hrs. cr.
Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 320 or consent of instructor.

Individual Testing (F)

42.1301-471 3 hrs. cr.
Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binet and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the Department Head.

Educational-Psychological Testing (S)

42.1301-474 3 hrs. cr.
Psycho-educational assessment techniques, including educational, intellectual, and psychomotor. Emphasis on translating assessment data to remedial programs.

Senior Seminar (F)

42.9999-480 2 hrs. cr.
For senior Psychology majors. Information and experiences helpful in making decisions about, and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment. Students become familiar with the professional interests and activities of the Psychology Department faculty in preparation for selecting Senior Thesis topics.

Senior Thesis (S)

42.9999-481 1 hr. cr.
Developing skills in reviewing and critically evaluating the professional literature of Psychology and using these skills in producing a senior thesis. Prerequisite: Senior Seminar.

Seminar in Psychology (Demand)

42.9999-498 1-3 hrs. cr.
Specialized knowledge and/or current research in Psychology. Topics vary by interest and demand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-Senior standing and consent of instructor. Some seminars are marked "(H)" in the class schedule and are intended for honors students. Other students may enroll in the honors seminars with consent of the instructor.

Independent Study (Demand)

42.9999-499 1-3 hrs. cr.
Course structured by advisor with approval of Department Head. Prerequisite: Advanced standing in the major field. Registration must be approved by advisor and Department Head.

HEALTH, PHYSICAL EDUCATION AND RECREATION

Individual Physical Education (F)

13.1314-100 2 hrs. cr.
Adapted physical activity based upon needs and ability of student. Students with certified medical disabilities may meet General Education requirement for physical education activity by completing this course.

EDUCATION AND PSYCHOLOGY

COURSES/PHYSICAL EDUCATION

Introduction to Physical Activities (F,S)

13.1314-101 2 hrs. cr.

A combination of physical activities and lectures. Two individual or dual activities are offered to provide the student with the opportunity to develop a degree of skill sufficient to participate during leisure time. Lectures acquaint students with basic knowledge, understandings and values of physical activity as it relates to optimal healthful living. Fulfills the General Education requirement in physical education.

Rules and Officiating of Team Sports (F,S)

13.1314-150 3 hrs. cr.

Knowledge and skills for officiating basketball, volleyball, softball, baseball, and football; officiating laboratory required in some areas. Open to all students.

Personal Health (F,S)

13.1307-160 2 hrs. cr.

Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene and the cause and prevention of common diseases. Not recommended for elementary education majors.

First Aid (S)

13.1304-220 2 hrs. cr.

Designed to complete the standard course of the American Red Cross in First Aid.

Safety (F)

13.1304-230 2 hrs. cr.

Basic safety education concepts for preparing the student to assume responsibility for accident prevention in the school, home, and community.

Fundamentals of Physical Education Activities I (F)

13.1314-251 3 hrs. cr.

Study of the skills and understanding of selected activities: games, sports and individual activities commonly found in the school program. Students must demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hours

Fundamentals of Physical Education Activities II (S)

13.1314-252 3 hrs. cr.

Study of the skills and understanding of selected activities: sports, gymnastics, and tumbling. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hours

Theory and Practice of Dance and Exercise

13.1314-255 2 hrs. cr.

Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamental rhythms, aerobic dance, exercises and choreographing rhythmic routines are included. Prerequisite: 30 hours.

The Elementary School Physical Education Program (F)

13.1314-310 3 hrs. cr.

Procedures and techniques for planning the curriculum for elementary school physical education. (Physical Education majors only).

Physical Education for the Elementary School (F,S)

13.1314-311 2 hrs. cr.

Methods and materials needed for directing games, skills, rhythm, and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificates.

Teaching Elementary School Physical Education (S)

13.1314-312 3 hrs. cr.

Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 (Physical Education majors only).

Theory and Analysis of Selected Team Sports (F)

13.1314-321 3 hrs. cr.

Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.

Internship in Physical Therapy Procedures (F,S)

13.1314-325 1-8 hrs. cr.

Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing, and approval of Departmental Committee.

Rhythmic Form and Analysis (F)

13.1314-332 2 hrs. cr.

Analysis of dance forms showing how complex music and dance forms are evolved. Prerequisite: HPER 252.

History and Philosophy of Physical Education (S)

13.1314-335 2 hrs. cr.

Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.

Motor Learning in Physical Education (F)

13.1314-340 3 hrs. cr.

Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social, and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.

Kinesiological Approach to Movement (S)

13.1314-342 3 hrs. cr.

A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 306 or equivalent.

Tests and Measurements in Physical Education

13.1314-345 2 hrs. cr.

Designed to train the prospective physical education teacher in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310

Theory of Basketball (S)

13.1314-350 2 hrs. cr.

Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: HPER 252.

Theory of Football (F)

13.1314-351 2 hrs. cr.

Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: HPER 252.

Theory of Track and Field (S)

13.1314-352 2 hrs. cr.

Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs. Prerequisite: HPER 252.

Theory of Coaching Soccer (S)

13.1314-353 1 hr. cr.

Organization and management of soccer competition. Systems of offense and defense, rules, strategy, and fundamentals of soccer are studied. Prerequisite: 60 hrs.

Theory of Coaching Volleyball (F)

13.1314-354 1 hr. cr.

Organization and management of volleyball competition. Offensive and defensive systems, rules, strategy, drills, and fundamentals are studied. Prerequisite: 60 hours

Theory of Baseball (F)

13.1314-360 2 hrs. cr.
Organization and management of a school baseball program including individual techniques, team play, and problems in coaching of baseball. Prerequisite: HPER 252.

Introduction to Driver Education (F)

13.1304-361 3 hrs. cr.
The first of two courses designed to prepare teachers of driver education for secondary schools. The place of the motor vehicle in American life; traffic safety; instructional materials and recommended methods of presenting such materials in the classroom and in the car on the road. Prerequisite: Psy 301 or Psy 110. Student must have: (1) a valid driver's license and (2) a safe driving record.

Advanced Driver and Traffic Safety (S)

13.1304-362 3 hrs. cr.
A continuation of 361 with special attention to administration, organization, finance, adult education, research, and evaluation of the school driver education program. Traffic safety problems at the local, state and national levels are also considered. Laboratory required. Prerequisite: HPER 361.

Socio-Psychological Aspects of Physical Education (F,S)

13.1314-365 2 hrs. cr.
Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Group and individual activities and conflicts in sport are analyzed; the effect of sport on society is also studied. Prerequisite: HPER 252.

School Health Education (F, S)

13.1307-370 3 hrs. cr.
Study of the content, facilities, and equipment needed for teaching school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on Health and Nutrition Programs for children for elementary majors. Prerequisite: 5 hrs. Biology.

Physiology of Exercise (F,S)

13.1314-431 2 hrs. cr.
Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.

Prevention and Care of Injuries (F,S)

13.1314-450 3 hrs. cr.
Designed to provide knowledge related to prevention, care, and rehabilitation of injuries. Laboratory experiences included. Prerequisite: HPER 342.

Advanced Athletic Training (S)

13.1314-451 2 hrs. cr.
A study of professional relationships, pharmacology, special problems in athletics, exercise programs and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

Administration of Physical Education (F,S)

13.1314-470 2 hrs. cr.
Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment and facilities. Study of intramural program. Prerequisite: 20 hours HPER.

Seminar in Health or Physical Education (Demand)

13.1314-498 1-3 hrs. cr.
A thorough study of an advanced problem in health or physical education for selected students. Prerequisite: Senior standing, permission of department head.

Independent Study (F,S)

13.1314-499 1-3 hrs. cr.
Research of a problem or field study relating to physical education; material, content, credit and schedule to be arranged by the department head. Prerequisite: Senior standing, 3.0 grade point average in major, and permission of department head.

THE ACTIVITY PROGRAM IN PHYSICAL EDUCATION

The activity program in physical education offers a program that will provide the student with the opportunity to develop a degree of skill sufficient to create interest and participation in this activity during leisure time in the adult years. It provides the student with the necessary knowledge of philosophical, psychological, and sociological nature of physical activity to comprehend the necessity of continued physical health throughout life.

To insure exposure to the various recreational activities, the College has adopted the following requirements:

All students (except physical education majors) must enroll in HPER 101. Students are required to complete two additional hours by choosing two activity courses or HPER 160. (Students are not to repeat HPER 101.)

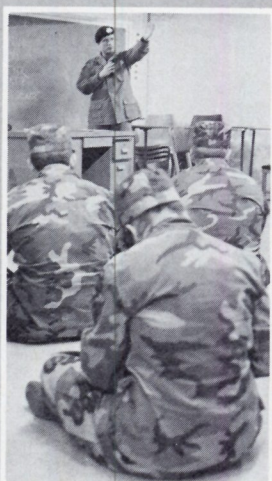
Activity Courses

Course No	Hours Cr.
13.1314-161 Varsity Football (F)	1
13.1314-162 Varsity Basketball (F)	1
13.1314-163 Varsity Volleyball (F)	1
13.1314-171 Varsity Cross Country (F)	1
13.1314-172 Varsity Track and Field (S)	1
13.1314-180 Varsity Golf (S)	1
13.1314-182 Varsity Baseball (S)	1
13.1314-183 Varsity Softball (S)	1
13.1314-191 Varsity Soccer (F)	1
13.1314-192 Varsity Tennis (S)	1
13.1314-210 Golf and Badminton (F,S)	1
13.1314-222 Varsity Sports and Activities (F,S)	1
13.1314-231 Elementary Gymnastics and Tumbling (F,Odd)	1
13.1314-232 Intermediate Gymnastics (S,Even)	1
13.1314-242 Volleyball and Tennis (S,Odd) . . .	1
13.1314-250 Dance and Exercise (S)	1
13.1314-261 Elementary Swimming (F,Odd) . .	1
13.1314-270 Advanced Swimming + Life Saving (S)	1
13.1314-292 Track, Weight Training (F,S)	1

THE SCHOOL OF TECHNOLOGY



Nursing students, 1946



SCHOOL OF TECHNOLOGY

SCHOOL DEAN

James K. Maupin, Dean
Robert H. Nickolaissen, Assistant Dean

DEGREES AND MAJORS

Bachelor of Science
 Computer Information Science
 Criminal Justice Administration
 Environmental Health
 Medical Technology
 Management Technology (in
 conjunction with Business
 Administration)
 Nursing
Bachelor of Science in Education
 Industrial Arts
Associate of Science
 Computer Science
 Law Enforcement
 Computer Assisted Manufacturing
 Technology
 Computer Aided Drafting and Design
 Nursing
 Radiologic Technology
 Environmental Health Technology
 Dental Hygiene
 Pre-Engineering
Associate of Arts (Pre-Professional)
 Pre-Pharmacy
 General (Paramedic)
Certificate (one year)
 Data Processing
Certificate (less than two semesters,
 offered through Continuing Education)
 Emergency Medical Technician
 Emergency Medical Technician-
 Paramedic
 Basic Police Recruit
Options and Emphases:
 Computer Information Science
 Business
 Science
 As a Second Teaching Field
Minors: (See Departments)
 Computer Information Science
 Criminal Justice Administration
 Industrial Arts
 Military Science

ROLE

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by, and under the leadership of, professional educators who also have the advantage of a background of actual work

experience in business, industry, health care, and government. This instruction is further enhanced by utilizing qualified individuals from business and the professions in the community as guest lecturers and part-time instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the Fine Arts, Humanities, and Natural Sciences as well as courses to refine a student's ability to read, write, speak, and think are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background, or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., B.S.E., A.S. and A.A. degrees and to one-year certificates. Programs of shorter duration, often in conjunction with the Department of Continuing Education, required for licensure or certification are also offered. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public service.

All departments work closely with advisory committees made up of persons from business, industry, government, and the professions. Input from the advisory committees aids the faculty of the various departments

in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

GOALS:

The goals of the School of Technology are:

1. to provide opportunities for students to prepare for a broad range of established and emerging careers;
2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences to appreciate their heritage and contemporary society and become a contributing member of their society;
3. to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;
4. to provide opportunities and encourage faculty and staff to remain current and conduct research in their respective disciplines;
5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruction;
6. to provide a variety of supportive functions to serve a variety of area needs;
7. to offer quality programs and, in areas where required, maintain program content necessary for special accreditation;
8. to offer a variety of continuing education programs to meet special needs and demands;
9. to encourage faculty to provide consultation services and otherwise serve as resources for the area;
10. to advise people, including students and potential students, regarding knowledge, skills, and abilities required to enter and succeed in various career fields;
11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

AVIATION

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Missouri.

For additional information contact:
Mr. James K. Maupin
Office: 113 Police Academy
Phone: 625-9328

COMPUTER SCIENCE

FACULTY:

Cragin, Head; Earney; Herr; Kelley; Mays;
Oakes; Tunnell

Two Associate of Science (A.S.) degrees have the goals of preparing the student for entry-level employment in business, industry, or government in the general field of computing. Both of these two-year programs require 24 hours of general education (see "Academic Regulations", Page 41). Some general education requirements can meet degree requirements of the department and/or course prerequisites; these are suggested below.

COMPUTER PROGRAMMING as an A.S. curriculum with a business orientation.

	Semester	Hours
General Education		24
Math 131 Finite Mathematics	3	
Comm 103 Business and Professional Speech	3	
Econ 201* or 202*, below, satisfies a General Education requirement in Social Science.	3	
Computer Core		21
Comp 115 Computing I (May be waived if student has completed 3 units of High School Math and 1 unit of High School Computer Science).	3	
Comp 120 Computing II*	3	
Comp 200, 230, 234, 334 (Select 2*, 3 if Comp 115 is waived)	6	
Comp 240 Statistical Computer Applications*	3	
Comp 301 Principles of Digital Computing*	3	
Comp 302 Systems Concepts*	3	
Business Core		18
Acct 201 Elementary Accounting I*	3	
Acct 202 Elementary Accounting II*	3	
Acct 310*, 312*, 401* (Select 1)	3	
Econ 201 Macro Economics*	3	
Econ 202 Micro Economics*	3	
GB 321 Business Statistics I*	3	

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*See course descriptions for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5103

Computer Programming Major

FRESHMAN YEAR

1st Semester	Course	Hours
Comp 115	Computing I	3
	Literature or Fine Arts	3
Math 131	Finite Math or 130 College Algebra	3
Gen Ed	[Eng 101] or higher	3
Gen Ed	[PSc 120 Gov't: U.S., State, Local]	3
Psy 120	College Orientation	1
		16

2nd Semester

Comp 120	Computing II	3
Acct 201	Principles of Accounting I	3
Comm 103	Business & Professional Speech	3
Comp 200	Advanced Personal Computing	3
Gen Ed	[Phys 100 Physical Science] or Bio 101	4-5
		16-17

SOPHOMORE YEAR

1st Semester	Course	Hours
Comp 230 or 234		3
Comp 240	Statistical Computer Applications	3
Acct 202	Principles of Accounting II (Acct 201)	3
Econ 202	Principles of Micro Economics	3
GB 321	Business Statistics	3
		15

2nd Semester

Comp 301	Principles of Digital Computing	3
Comp 302	Systems Concepts	3
Econ 201	Principles of Macro Economics	3
Acct 310	[Cost Accounting] or Acct 312	3
Gen Ed	Psy 100 General Psychology	3
Gen Ed	HPER 101 or 160	2
		17

[] Dept Recommendation

For additional information contact:
Dr. John Cragin
Office: 223 Matthews Hall
Phone: 625-9383

COMPUTING ANALYSIS as an A.S. curriculum with a Science orientation.

General Education Requirement [] 24

Math and Physics are covered below
Comm 103 Business and Professional Speech 3

Computer Core 18

Comp 115 Computing I 3
(may be waived if student completed 3 units of High School Math and 1 unit of High School Computer Science)

Comp 120	Computing II*	3
Comp 240	Statistical Computer Applications*	3
Comp 301	Principles of Digital Computing*	3
Comp 200, 210, 230, 234, or CIS 330	(Select 1)* (2 if Comp 115 waived)	3
CIS 340	Analog Methods w/Digital Computers	3

Mathematics/Physics Core 34

(10 of the 34 cr. hrs. in Math and Physics also satisfy General Education requirements)

Math 150	Calculus I []*	5
Math 250	Calculus II*	5
Math 260	Calculus III*	5
Math 322	Differential Equations*	3
Math 310 or 361	(Select 1)*	3
Math 350 or 431	(Select 1)*	3
Phys 250	General Physics I* []	5
Phys 260	General Physics II*	5

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*See course descriptions for prerequisites
[] Satisfies General Education requirement

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5104

Computing Analysis

FRESHMAN YEAR

1st Semester	Course	Hours
Comp 120	Computing II*	3
Math 150	Calculus & Analytical Geometry I	5
Eng 101	Composition	3
Phys 250	Gen Physics (Math 150 co-requisite)	5
Psy 120	College Orientation	1
		17

2nd Semester

Computer Elective		3
Comp 240	Statistical Computer Applications	3
Math 250	Calculus & Analytical Geometry II	5
Phys 260	General Physics II	5
PSc 120	Gov't: U.S., State, Local	3
		19

SOPHOMORE YEAR

1st Semester	Course	Hours
Comp 301	Principles of Digital Computing	3
Math 260	Calculus & Analytical Geometry III	5
Phys 312	Statics	3
Psy 100	General Psychology	3
HPER 101 or 160		2
		16

TECHNOLOGY

COMPUTER INFORMATION SCIENCE

2nd Semester

CIS 340	Analog Methodology with Digital Computers	3
Math 322	Differential Equations	3
Math 431 or 350	Numerical Analysis	3
Math 361	Intro to Probability	3
Comm 103	Business & Professional Speech	3
Literature or Fine Arts		3
		18

*Computer Prerequisite may be waived with 1 unit of H.S. programming and 3 units of high school mathematics.

For additional information contact:
Dr. John Cragin
Office: 223 Matthews Hall
Phone: 625-9383

A 30-hour curriculum that provides elements of general education, computer science, and business is available. This curriculum does not lead to a degree, but a certificate is awarded by the College to acknowledge work completed.

Eng 101	Freshman Composition	3
Math 130 or higher		3
Comp 115	Computing I	3
Comp 120	Computing II*	3
Comp 200, 210, 230, 234	(Select 2)*	6
1 Additional 3 cr. hr. General Education course		3
2 Additional 3 cr. hr. courses from student's area of application, interest or emphasis		6
1 Additional 3 cr. hr. course — General Elective		3
		30

*See course descriptions for prerequisites.

COMPUTER/INFORMATION SCIENCE

FACULTY:

Cragin, Head; Earney, Herr, Kelley, Mays, Oakes, Tunnell

The increasing use of computers in business, government, science, industry, education, and the home has created a broad spectrum of opportunities for employment, service, or personal use of computing machines and techniques. To assist the graduate in exploiting these opportunities the following curricula are offered.

BACHELOR OF SCIENCE IN COMPUTER/INFORMATION SCIENCE has two options. One is oriented toward business; the other is oriented toward the sciences. There is considerable opportunity to tailor the curriculum to the individual's liking through the judicious selection of computer and/or professional electives. In this regard it is strongly suggested that the student insure depth of coverage by selecting two-course sequences where possible [e.g., Comp 234 (COBOL) and CIS 334 (Advanced COBOL) or Comp 115 and Comp 200 (a BASIC sequence)].

Option I (B.S. in CIS — Business Option)

General Education Requirement 46

Eng 103	Technical Writing*	will substitute for Eng 102 and is recommended.	3
Math 131	Math 130, College Algebra,	may substitute for Finite Mathematics as a prerequisite for Accounting and Programming courses.	3
Econ 202	Micro Economics*	(recommended as a Social Science General Education course).	3
Comm 103	Business and Professional Speech	(recommended for the General Education speech requirement. An upper-division (300-400) literature course is recommended for a Humanities General Education requirement.)	3

Computer Core 34

Comp 115	Computing I (or 3 HS units of Math and 1 HS unit of Computer)	3
Comp 120	Computing II*	3
Comp 200, 210, 230, 234, CIS 330, 334 (Select 1)*	(2, if Comp 115 waived)	3
Comp 240	Statistical Computer Applications*	3
Comp 302	Systems Concepts*	3
CIS 320	Operations Modeling*	3
CIS 350	Data Structures and Techniques*	3
CIS 400	Computer Colloquium*	1
CIS 410	Information Systems Analysis*	3
CIS 420	Systems Design*	3
CIS 450	Operating Systems Software*	3

Senior-level CIS elective (CIS 498 Seminar recommended, when offered, for currency.) 3

Professional Concentration 30

Acct 201	Elementary Accounting I*	3
Acct 202	Elementary Accounting II*	3
Acct 310 or higher*		3
GB 321	Business Statistics I*	3
MM 350	Principles of Management*	3
MM 441	Organizational Behavior*	3

Professional electives (upper-division CIS or Business Dept. supporting courses). 12

General Electives 15

125

*See course descriptions for prerequisites.

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 5105

Computer/Information Science Major (Option I)

FRESHMAN YEAR

1st Semester		Hours
Course		
Comp 115	Computing I*	3
Math 131	Finite Math	3
Eng 101	Composition	3
Psy 100	General Psychology	3
Hist 110 or 120	U.S. Hist	3
Psy 120	College Orientation	1
		16

2nd Semester

Comp 120	Computing II	3
Acct 201	Principles of Acct 1	3
Eng 103	Technical Writing (or Eng 102)	3
Bio 101	General Biology	4
HPER 101	PE Activity	2
HPER 160	Personal Health	2
		17

SOPHOMORE YEAR

1st Semester		
Computer Elective		3
Acct 202	Principles of Acct II	3
Econ 202	Micro Economics	3
Phys 100	Fundamentals of Physical Science	5
Gen Ed	Humanities/Fine Arts	3
		17

2nd Semester

Comp 240	Statistical Computer Applications	3
Computer Elective		3
Acct 310 or higher		3
PSc 120	Gov't: U.S., State, Local	3
GB 321	Business Statistics I	3
Gen Ed	Humanities/Fine Art	3
		18

COMPUTER INFORMATION SCIENCE

JUNIOR YEAR

1st Semester	
CIS 320	Operations Modeling
Comm 103	Bus/Professional Speech
Gen Ed	Humanities/Fine Art
CIS 400	Computer Colloquium
Computer Elective, e.g. Comp 234	
Elective	
2nd Semester	
Comp 302	Systems Concepts
CIS 350	Data Structures & Techniques
MM 350	Principles of Management
Professional Elective, e.g. CIS 334 @	
Elective	

SENIOR YEAR

1st Semester	
CIS 410	Information Systems Analysis
CIS 450	Operating Systems Software
MM 441	Organizational Behavior
Professional Elective	
Elective	
2nd Semester	
CIS 420	Systems Design
Professional Elective	
Professional Elective	
CIS 498	Seminar
Elective	

*May be waived with 1 unit of high school computing and 3 units of high school mathematics.
@ Comp 234 and CIS 334 are an example of a two-course sequence that offers depth in a language (COBOL).

For additional information contact:
Dr. John Cragin
Office: 223 Matthews Hall
Phone: 625-9383

Option II (B.S. in CIS—Science Option) General Education [Page 41] 46 (8 hours satisfied by curriculum requirements)

Math and Physics covered below; hours not included above.
Econ 202 (for Social Science), Comm 103 (for speech) and Upper-division Literature (for Humanities) are recommended.

Computer Core

Comp 115	Computing I	3
(may be waived with three units HS Math & one unit HS Computing)		
Comp 120	Computing II*	3
Comp 200, 210, 230, 234, CIS 334	(Select 1)*	3
(Select 2, if Comp 115 waived)		

Comp 240	Statistical Computer Applications*	3
CIS 320	Operations Modeling*	3
CIS 330	Assembler Language*	3
CIS 340	Analog Methodology w/ Digital Computers*	3
CIS 350	Data Structures and Techniques*	3
CIS 400	Computer Colloquium*	1
CIS 450	Operating Systems Software*	3
CIS 460	Compilers*	3
CIS 498	Seminar in Computer/Information Science	3

Professional Concentration

Math 150	Calculus I* []	5
Math 250	Calculus II*	5
Math 260	Calculus III*	5
Math 310 OR GB 321 (Statistics)	(Select 1)*	3
Math 350 OR 431 (Numerical Analysis) (Select 1)*		3
Phys 250	General Physics I* []	5
Phys 260	General Physics II*	5
Professional electives upper-division Science or Math or CIS Dept. approved supporting courses; one CIS 498 Seminar, when offered, is strongly recommended for currency.)		

General Electives

*See course descriptions for prerequisites.
[] Satisfies General Education Requirement

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 5106
Computer/Information Science (Option II)

FRESHMAN YEAR

1st Semester	
Course	
Math 140	College Algebra/Trigonometry
Eng 101	Composition
Psy 100	General Psychology
Hist 120	U.S. History
HPER 160	Personal Health
Psy 120	College Orientation

2nd Semester		
Comp 120	Computing II*	3
Math 150	Calculus I	5
Bio 101	General Biology	4
HPER 101	Physical Activity	2
Eng 103	Technical Writing (or Eng 102)	3
		17

SOPHOMORE YEAR

1st Semester		
Computer Elective		3
Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 202	Micro Economics	3
		16

2nd Semester		
Comp 240	Statistical Computer Applications	3
Math 260	Calculus III	5
Phys 260	General Physics II	5
Gen Ed	[Lit or Fine Arts]	3
		16

JUNIOR YEAR

1st Semester		
Computer Elective		3
CIS 320	Operations Modeling	3
CIS 400	Computer Colloquium	1
Comm 103	Business/Professional Speech	3
Professional Elective		3
Gen Ed	[Upper Division Lit]	3
		16

2nd Semester		
CIS 350	Data Structures & Techniques	3
CIS 340	Analog Methodology	3
Math 350	Numerical Analysis	3
	[or Math 431 in Fall]	
PSc 120	Gov't: U.S., State, & Local	3
Gen Ed	[Fine Arts]	3
		15

SENIOR YEAR

1st Semester		
CIS 450	Operating Systems Software	3
CIS 330	Assembler Language	3
Professional Elective		3
Professional Elective		3
Elective		3
		15

2nd Semester		
CIS 460	Compilers	3
CIS 498	Seminar in CIS	3
Professional Elective		3
Elective		3
Elective		3
		15

*Computer Prerequisite may be waived with 1 unit of high school computing and three units of high school mathematics.
@Each course offered only every other year.

For additional information contact:
Dr. John Cragin
Office: 223 Matthews Hall
Phone: 625-9383

TECHNOLOGY

CRIMINAL JUSTICE

COMPUTER/INFORMATION SCIENCE AS A SECOND TEACHING FIELD

Students planning to teach Computer/Information Science as a second field in secondary school should complete, in addition to General Education and Certification Requirements, the following

Computer Core:

Comp 105	Introduction to Microcomputer Use	
OR		
CIS 305	Microcomputer Applications (Recommended)	3
Comp 115	Computing I	3
Comp 120	Computing II	3
Comp 200	Advanced Personal Computing with Graphics (BASIC)	3
Comp 230	Report Program Generation	3
Comp 301	Principles of Digital Computing	3
Educ 346	Teaching Computer Science—Secondary	3
CIS 350	Data Structures	3

24

The courses listed above should be supplemented by courses selected from the following list. Thirty or more hours are needed in the second teaching field. Thus a minimum of three more Computer/Information Science courses, nine semester hours of which six are numbered 302 or above, are to be selected, with the aid of an advisor from the Computer/Information Science department.

Comp 234	Business Data Processing Techniques (COBOL)	3
Comp 240	Statistical Computer Applications	3
Comp 302	Systems Concepts	3
CIS 305	Microcomputer Applications	3
CIS 330	Assembler Language	3
CIS 334	Advanced Cobol	3
CIS 340	Analog Methodology w/ Digital Computers	3

CIS 410	Information Systems Analysis	3
CIS 420	Systems Design	3
CIS 498	Seminar in CIS	3

A MINOR IN COMPUTER/INFORMATION SCIENCE

can be earned in conjunction with a baccalaureate degree in another discipline. This 21-hour option may be tailored to the student's interest area. All students must complete Comp 115, Comp 120, and any 200-level Computer Science course and CIS 350. They then select three or more courses to round out a total of 21 hours (or more) of which 9 cr. hrs. must be upper division. Some of the courses from which the nine or more hours are to be selected are listed here with (B/E) for those recommended to Business or Education Majors and with (A&S) for those recommended to Arts and Sciences Majors.

Comp 302	Systems Concepts (B/E)	3
CIS 320	Operations Modeling (A&S)	3
CIS 330	Assembly Language (A&S)	3
CIS 334	Advanced COBOL	3
CIS 340	Analog Methodology with Digital Computers (A&S)	3
CIS 410	Information Systems Analysis (B/E)	3
CIS 420	Systems Design (B/E)	3
CIS 450	Operating Systems Software	3

A BACHELOR OF GENERAL STUDIES (BGS) DEGREE

is a viable alternative for a few individual students who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the BGS degree.

CRIMINAL JUSTICE ADMINISTRATION

FACULTY:

Seneker, Director; Mosher, Richards, Spurlin, Terry, Whittle, Williams

The department offers two degrees, the Bachelor of Science in Criminal Justice Administration and the Associate of Science in Law Enforcement. Since many of the jobs in these fields have special background and physical requirements, students considering one of these majors are required to schedule an interview with the Director of the programs before enrolling.

The Criminal Justice activities of the College are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building, and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Associated with the crime lab, a complete photographic laboratory, with both automated and color equipment, serves not only for student use, but also to process crime scene and "mug shot" photos for area police and sheriffs. Most of the College's public relations and instructional photography support is also done in this lab.

Missouri law requires new officers to obtain "basic training" in a certified Regional Police Academy. Missouri Southern operates the regional academy for this portion of Missouri, and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters, and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students, ROTC cadets, and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the college serves the community in a practical sense. This works

to the advantage of the pre-service college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interested and challenged students working with experienced and dedicated staff.

The B.S. in Criminal Justice Administration is designed for persons planning careers in law enforcement, juvenile justice, corrections, probation and parole, private or industrial security, federal investigative agencies, related positions, and when combined with the ROTC program, for Military Police officers. Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

BACHELOR OF SCIENCE IN CRIMINAL JUSTICE ADMINISTRATION

General Education Requirements

Criminal Justice Requirements	
LE 100	Introduction to Law Enforcement 3
LE 110	Police Organization and Administration 2
LE 150	Interview and Report Writing 2
LE 210	Criminal Procedures 3
LE 250	Criminal Law 3
LE 290	Police Supervision and Management 3
CJAd 490	Internship in Criminal Justice Administration* (or LE 180) 6

The student must also select a minimum of 20 credit hours from the following list of major course electives:

LE 200	Criminal Investigation I 3
LE 298	Special Topics 1-8
CJAd 130	Introduction to Security 3
CJAd 210	Basic Photography* 3
CJAd 230	Physical Security 3
CJAd 260	Legal & Technical Aspects of Firearms 3

CJAd 300	Criminal Investigation II*	3
CJAd 310	Traffic Accident Investigation and Controls*	3
CJAd 320	Probation and Parole*	2
CJAd 330	Loss Prevention Techniques*	3
CJAd 331	Administration of Security Systems*	3
CJAd 340	Basic Color Photography*	3
CJAd 400	Homicide Investigation	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections*	3
CJAd 412	Correctional Practices	3
CJAd 450	Criminal Evidence*	3
CJAd 498	Seminar in Criminal Justice Administration*	1-3
CJAd 499	Independent Study*	1-3

*See course descriptions for prerequisites.

The major in Criminal Justice Administration also requires that the student complete 21 hours of classwork in the supportive area:

Soc 110	Introduction to Sociology	3
Soc 210	Social Problems*	3
Soc 351	Criminology*	3
Soc	Upper Division Sociology Elective*	3
Psy 100	General Psychology	3
Psy	Psychology Elective	3
Psy	Psychology Elective	3

*See course descriptions for prerequisites.

General electives selected with advisor approval (among which must be sufficient "upper division" courses [courses numbered at the 300 or 400 level] to complete the college's requirement for a minimum 40 upper-division hours).

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 2105

Criminal Justice Administration Major

FRESHMAN YEAR

1st Semester		Hours
Course		
LE 100	Intro to Law Enforcement	3
LE 110	Police Organization and Administration	2
Eng 101	Composition	3
Econ 180	American Economic System	3
Comm 100	Oral Communications	3
Psy 120	College Orientation	1
		15

2nd Semester

LE 150	Interview and Report Writing	2
Eng 103	Technical Writing (or Eng 102)	3
Math 110	Intro College Math	3
Bio 101	General Biology	4
PSc 120	Gov't: U.S., State, and Local	3
HPER 101	P.E. Activity	2
		17

SOPHOMORE YEAR

1st Semester		Hours
LE 210	Criminal Procedures	3
Hist 110 OR	120 U.S. History	3
Phys 100	Fundamentals of Physical Science	5
Soc 110	Intro to Sociology	3
HPER 160	Personal Health	2
		16

2nd Semester

LE 250	Criminal Law	3
LE 290	Police Supervision and Management	3
Soc 210	Social Problems	3
Psy 100	General Psychology	3
Gen Ed	(Literature)	3
		15

JUNIOR YEAR

1st Semester		Hours
CJAd Elective		3
Gen Ed	(Phys 100)	5
Soc 351	Criminology	3
Psychology Elective		3
Elective		1
		15

2nd Semester

CJAd Elective		3
Gen Ed	(Fine Art)	3
Sociology Elective		3
Electives		4
Psychology Elective		3
		16

SENIOR YEAR

1st Semester		Hours
CJAd Elective		3
CJAd Elective		3
Gen Ed	(Literature or Fine Art)	3
Psychology Elective		3
Elective		3
		15

TECHNOLOGY

DENTAL HYGIENE

2nd Semester
CJAd 490 Internship in CJAd
PSc Elective (Upper Division)
CJAd Electives
Electives

6
3
5
2
16

All electives must be approved by a CJAd advisor prior to enrollment.

For additional information contact:
Mr. Don Seneker
Office: 104 Police Academy
Phone: 625-9302

MINOR IN CRIMINAL JUSTICE ADMINISTRATION

The minor consists of 18 hours of course work which includes: LE 100 Introduction to Law Enforcement, LE 210 Criminal Procedures, LE 250 Criminal Law, and nine additional hours of LE or CJAd courses, three of which must be upper division.

DENTAL HYGIENE

FACULTY:

Scorse, Director; David, Rubertus, Karst

The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information; performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents, and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools, hospitals

dental schools, industrial clinics, the armed services, and research institutions.

Missouri Southern offers an Associate of Science Degree in Dental Hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not automatically confer admission to the Dental Hygiene Program. In addition to meeting admission requirements for the College, candidates should apply for admission to the Department of Dental Hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene, and consideration is given to demonstrated scholastic ability and test scores, references, and results of a personal interview with the Dental Hygiene faculty. Applicants are encouraged to submit the necessary information by mid-March so that interview appointments can be scheduled in April.

Evidence of satisfactory completion of the prerequisites which include general zoology, intermediate algebra (or higher math), and English composition should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a C or above during the summer prior to entrance into the program.

Enrollment is limited, and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the Dental Hygiene program only in the fall of each year.

Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by Dental Hygiene students: \$400 for uniforms, safety glasses and graduation pins; \$500 for instruments; approximately \$500 for licensure

exams which will vary depending on state(s) in which license is desired; approximately \$60 for ADHA student membership dues and liability insurance; variable expenses for transportation to off campus clinical training sites and meals.

The Associate of Science in Dental Hygiene requires a minimum of 78 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of C or above in Dental Hygiene and supporting science courses are necessary for retention in the Dental Hygiene Program.

ASSOCIATE OF SCIENCE DEGREE IN DENTAL HYGIENE

	Semester Hours
General Education Requirements	24
Dental Hygiene Requirements	61
(10 hours satisfied by prerequisites)	
DH 101 Fundamentals of Dental Hygiene I	4
DH 102 Fundamentals of Dental Hygiene II*	4
DH 140 Dental Morphology	1
DH 150 Oral Histology and Embryology	3
DH 160 Dental Radiology	2
DH 190 Clinical Dental Hygiene I*	3
DH 200 Dental Health Education	3
DH 210 Perio-Pathology	3
DH 220 Dental Materials	3
DH 290 Clinical Dental Hygiene II*	5
DH 310 Nutrition	2
DH 320 Pharmacology	2
DH 330 Ethics and Community Dentistry*	3
DH 390 Clinical Dental Hygiene III*	5
Bio 231 Medical Microbiology*	5
Bio 240 Radiation Biology*	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Introductory Chemistry*	5

85

*See course descriptions for prerequisites

Suggested Order of Study

ASSOCIATE OF SCIENCE

Major Code 5203

Dental Hygiene Major

PREREQUISITES:

Bio 121	General Zoology	4
Eng 101	Freshman Composition	3
Math 30	Intermediate Algebra (or higher Math Course)	3

FRESHMAN YEAR

Fall Semester
Course

DH 101	Fundamentals of Dental Hygiene I	4
DH 140	Dental Morphology	1
DH 150	Oral Histology and Embryology	3
Bio 306	Human Physiology and Anatomy	5
Chem 100	Introductory Chemistry	5
		18

Spring Semester

DH 102	Fundamentals of Dental Hygiene II	4
DH 160	Dental Radiology	2
DH 220	Dental Materials	3
DH 310	Nutrition	2
Bio 231	Medical Microbiology	5
Bio 240	Radiation Biology	3
		19

Summer Session

DH 190	Clinical Dental Hygiene I	3
DH 210	Perio-Pathology	3
		6

SOPHOMORE YEAR

Fall Semester

DH 200	Dental Health Education	3
DH 290	Clinical Dental Hygiene II	5
DH 320	Pharmacology	2
Psy 100	General Psychology	3
Comm 100	Oral Communications	3
HPER 101	Introduction to Physical Activities	2
		18

Spring Semester

DH 330	Ethics and Community Dentistry	3
DH 390	Clinical Dental Hygiene III	5
Gen Ed	(Humanities or Fine Arts)	3
Gen Ed	(Hist 110, Hist 120 or PSc 120)	3
Soc 110	Introduction to Sociology	3
		17

For additional information contact:
Sandra A. Scorse, D.D.S.
Office: 102 Technology Building
Phone: 625-9379

COMPUTER AIDED DRAFTING AND DESIGN

FACULTY:

Morgan, Nickolaisen

The Computer Aided Drafting and Design curriculum leads to an Associate of Science Degree in Drafting and Design. The curriculum prepares individuals to enter employment as drafters and CAD technicians in the fields of manufacturing, architecture or construction.

The requirements for the Associate of Science degree in Drafting and Design provide a broad base of technical and general education courses. Computer assisted drafting and design hardware and software are used to supplement traditional manual instruction in all courses. The department also functions as an authorized training center for both AUTOCAD and VersaCAD software. This allows each student to be exposed to the latest CAD technology while in school. Graduates also receive national recognition as they enter the work force.

Courses are also required in mathematics, science, and the humanities. Math 130 (or 30) must be completed to meet the mathematics General Education requirement. It is highly recommended that all Computer Aided Drafting and Design majors complete Math 112 or Math 140.

Many students who complete the Associate of Science Degree in Drafting and Design continue their education by pursuing a Baccalaureate Degree in Industrial Arts or Management Technology.

ASSOCIATE OF SCIENCE DEGREE IN COMPUTER AIDED DRAFTING AND DESIGN

	Semester Hours
General Education Requirements	24
Drafting Requirements	29
CADD 110	Introductory Drafting 3
CADD 115	Intro to Computer Aided Drafting 1
CADD 120	Descriptive Geometry* 3
CADD 130	Machine Drafting* 3
CADD 202	Tool Design or 204 Mech Design* 3

CADD 210	Technical Illustration*	3
CADD 220	Architectural Drafting*	3
CADD 230	Survey and Mapping*	3
CADD 260	Computer Aided Drafting*	3
CAM 100	Intro to Machine Tool Processes	
OR		
IA 300	Woodworking	4

Electives (at least 9 hours)

Art 132	Introduction to Design	3
Art 230	Basic Form	3
CJAd 210	Basic Photography	3
Comp 115	Computing I	3
Comp 120	Computing II	3
Comp 200	Advanced Personal Computing w/graphics	3
Eng 103	Technical Writing	3
IA 310	Introduction to Plastics	3
IA 321	Industrial Electricity	3
IA 322	Electricity/Electronics	3
IA 340	Power Technology	3
CAM 160	Inspection and Gaging	2
CAM 260	Fundamentals of Metallurgy	3
Math 112	Trigonometry	3
CADD 298	Special Topics in Drafting & Design*	1-3
CADD 490	Internship in Drafting & Design*	1-8
CADD 498	Seminar in Drafting & Design*	1-3
CADD 499	Independent Study*	1-3

62

*See course description for prerequisites

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5303

Computer Aided Drafting and Design Major

FRESHMAN YEAR

1st Semester	Hours	Course
CADD 110	Introduction to Drafting	3
CADD 115	Introduction to Computer Aided Drafting	1
Math 30 or 130	Intermediate or College Algebra	3
CAM 100	Intro Mach Tool Proc or IA 300 Woodworking	4
Gen Ed	(Humanities or Fine Arts)	3
Psy 120	College Orientation	1
		15
2nd Semester		
CADD 120	Descriptive Geometry	3
CADD 130	Machine Drafting	3

TECHNOLOGY

PRE-ENGINEERING/ ENVIRONMENTAL HEALTH

Eng 101 Composition 3
Comm 101 (or 103) Oral Communication 3
HPER 101 Introduction to P.E. 2
Technical Elective 3
17

SOPHOMORE YEAR

1st Semester
CADD 202 or 204 Tool Design or Mechanical Design 3
CADD 230 Mapping & Survey (Phys 100) 3
Gen Ed 5
Technical Electives 6
17

2nd Semester
CADD 210 Technical Illustration 3
CADD 260 Computer Aided Drafting 3
CADD 220 Architectural Drafting 3
Gen Ed (Psy 100 or Soc 110) 3
Gen Ed (Hist 110, Hist 120 or PSc 120) 3
15

For additional information contact:
Mr. Ron Morgan
Office: 114 Technology Building
Phone: 625-9327

PRE-ENGINEERING

FACULTY:

Martin, Phillips

The Math and Physical Science Departments at Missouri Southern in cooperation with the Engineering Staff at the University of Missouri-Rolla have prepared a booklet entitled: "A Model Program for Engineering Transfers". This booklet lists the course sequence for students taking their first two or two and one-half years of an Engineering Science curriculum at Missouri Southern and planning to transfer to UMR. The plan also includes the courses the student will take at UMR to complete a B.S. degree in various engineering disciplines. Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering advisor during the first semester. If a student wishes to transfer to a school other than UMR, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR outline. College catalogs are available in the Reserve area of the Spiva Library. Any advisors who desire a copy of the booklet should contact the Mathematics or Physical Science Department.

General Education Requirements**

Pre-Engineering Requirements

		Semester Hours	
Phys 250	General Physics I*	5	
Phys 260	General Physics II*	5	
Phys 312	Statics*	3	
Chem 101	General Chemistry I***	5	
Math 150	Calculus with Analytical Geometry I*	5	
Math 250	Calculus with Analytical Geometry II*	5	
Math 260	Calculus with Analytical Geometry III*	5	
Comp 120	Computing II*	3	
Econ 210	Principles of Economics (Macro)	3	
Elective	(Math or Physics)***	3	
Elective	(Humanities/Social Science/Drafting)***	3	
		62	

*See course descriptions for prerequisites.

**Required Math and Physics courses simultaneously satisfy General Education and Major requirements.

***The student should meet with a pre-engineering advisor for the proper selection depending on the field of engineering.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5499

Pre-Engineering Major

FRESHMAN YEAR

1st Semester

Course	Hours
Eng 101 Composition	3
Math 150 Calculus I	5
Hist 110 OR 120 U.S. History	3
Chem 101 General Chemistry I	5
Psy 120 College Orientation	1
	17

2nd Semester

Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 201	Principles/Economics	3
Gen Ed	Humanities/Fine Arts/Drafting *	3
		16

SOPHOMORE YEAR

1st Semester

Math 260	Calculus III	5
Phys 260	General Physics II	5
Comp 120	Computing II	3
Gen Ed	Sociology or Psychology*	3

Gen Ed	Humanities/Fine Arts*	
OR		
HPER 101	Intro to P.E.	
OR		
HPER 160	Personal Health	3-2
		19-18
2nd Semester		
Math 322	Differential Equations	3
Phys 312	Statics	3
Phys 372	Electronic Circuits	4
Phys 341	Thermal Physics	
OR		
Phys 322	Classical Mech.	4-3
Comm 100	Oral Communications*	
OR		
Gen Ed	Humanities/Fine Arts	3
		17-16

*Suggested elective (not strict requirements)

For additional information contact:
Dr. Larry Martin
Office: 200 Reynolds Hall
Phone: Ext. 240
OR
Dr. Russell Phillips
Office: 226 Reynolds Hall
Phone: Ext. 292

ENVIRONMENTAL HEALTH TECHNOLOGY

FACULTY

Elick, Coordinator; Gibson, Tillman

The college offers the four year Bachelor of Science in Environmental Health with two options and a two year Associate of Science degree.

Option I, the Bachelor of Science degree, requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of Crowder College, Neosho, Missouri. The student holds membership in only one student body at a time. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

Option II for the Bachelor of Science degree requires four complete academic years at Missouri Southern including a semester internship. Plans for the internship should be made with the student's advisor during the spring semester of the junior year.

The Associate of Science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Missouri. The combination of Missouri

ENVIRONMENTAL HEALTH

Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in Environmental Health Technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the Associate of Science Degree. The student may complete the requirements at either school first, but is a member of only one student body at a time.

BACHELOR OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY MAJOR

General Education Requirements (15 hours satisfied by Major requirements) 31

Upper Division Hours Biology and Environmental Health Core 40

EH 110	Man and Environment	4
Bio 112	Botanical Survey	3
Bio 122	Zoological Survey	3
Bio 231	Medical Microbiology	5
Bio 306	Human Physiology and Anatomy	5
OR		
431	Animal Physiology	5
Bio 442	Invertebrate Zoology or approved substitute	5
EH 300	Earth Environments	4
EH 312	Environmental Biology	4
EH 370	Environmental Health	4

Mathematics and Physical Science Requirements

Math 140	College Algebra and Trigonometry	5
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5
Chem 201	Analytical Chemistry I	5
Chem 300	Introduction to Modern Organic Chemistry	5

Business Requirements

Acct 201	Principles of Accounting I	3
Econ 201	Principles of Economics (Macro)	3
MM 350	Principles of Management	3
MM 352	Personnel Management	3

OPTION I WATER AND WASTEWATER MANAGEMENT

Water and Wastewater Technical School
Upper Division Hours Awarded 20

College Computer Requirement

Comp 115 Computing I or Computer Course approved by Biology Department 2-3
137-138

Option II Institutional and Community Health

Bio 361	Parasitology	4
OR		
422	Invertebrate Zoology	5
Bio 402	General Ecology	4
OR		
481	Aquatic Biology	4
EHT 450	Internship in Environmental Health	1-8

College Computer Requirement

Comp 115 Computing I or Computer Course approved by Biology Department 2-3
124-125

ASSOCIATE OF SCIENCE ENVIRONMENTAL HEALTH TECHNOLOGY MAJOR

General Education Requirements (4 hours satisfied by Major requirements) 24

Biology and Environmental Health Core 8-9

Bio 101	General Biology	4
Bio 231	Medical Microbiology	5
OR		
312	Environmental Biology (if WWTS completed)	4

Physical Science Requirement

Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5

Water and Wastewater Technical School 30
68-69

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5299
Environmental Health Major

****Prescribed 48 week course at Water and Wastewater School-30 Hrs**

FRESHMAN YEAR

1st Semester		Hours
Course		
Chem 101	General Chemistry I	5
Bio 101	General Biology	4
Math 140	Algebra and Trigonometry	5
Psy 120	College Orientation	1
HPER 101	Physical Education	2
		17
2nd Semester		
Chem 102	General Chemistry II	5
Bio 312	Environmental Biology	4
Eng 101	Composition	3
Gen Ed	[Literature or Fine Arts]	3
Gen Ed	[Hist 110 or PSc 120]	3
		18
Summer Semester		
Gen Ed	[Psy 100 or Soc 110]	3
Comm 100	Oral Communications	3
		6

****This work may be taken prior to entering Missouri Southern or after completing work on Crowder College campus.**

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 1299
Environmental Health Technology Major

FRESHMAN YEAR

1st Semester		Hours
Course		
Eng 101	Composition	3
Math 140	Algebra & Trigonometry	5
Bio 101	General Biology	4
Psy 100	[General Psychology]	3
HPER 101	Physical Education	2
Psy 120	College Orientation	1
		18
2nd Semester		
Bio 112	Botany Survey (Bio 101)	3
Eng 102	Composition	3
Hist 110	U.S. History	3
Art 110	Art Appreciation	3
HPER 160	Personal Health	2
Eng 261	Masterpieces of World Literature	3
		17

SOPHOMORE YEAR

1st Semester		Hours
Course		
Bio 122	Zoology (Bio 101)	3
Chem 101	General Chemistry I (Math 140)	5
Econ 201	Principles of Economics	3
Comm 100	Oral Communications	3
Acct 201	Principles of Accounting	3
		17
2nd Semester		
Chem 102	General Chemistry II (Chem 101)	5
Bio 231	Medical Microbiology	5
EH 300	Earth Environments	4
MM 350	Principles of Management	3
		17

TECHNOLOGY

INDUSTRIAL ARTS

JUNIOR YEAR

1st Semester		
Chem 201	Analytical Chemistry I	5
Bio 306	Human Physiology and Anatomy	4
OR		
431	Animal Physiology	5
Bio 312	Environmental Biology	4
PSc 120	Gov't: U.S., State & Local	3
		17

2nd Semester

Chem 300	Introduction to Modern Organic Chemistry	5
Gen Ed	Literature or Fine Arts	3
MM 352	Personnel Management	3
EH 370	Environmental Health	4
		15

SENIOR YEAR

Option I

Three trimesters of study at the Water and Wastewater Division of Crowder College. (This work may be taken prior to entering Missouri Southern.)

SENIOR YEAR

Option II

1st Semester		
Bio 361	Parasitology	4
OR		
422	Invertebrate Zoology	5
Bio 402	Ecology	4
OR		
481	Aquatic Biology	4
Comp 115	Computing I	3
		11-12

SENIOR YEAR

Option II

2nd Semester		
EHT 450	Internship	1-8
		1-8

() Prerequisites

[] Department Recommendations

For additional information contact:
Dr. Gerald Elick
Office: 308-C Reynolds Hall
Phone: Ext. 278
or
Mr. David Tillman
Office: 310 Reynolds Hall
Phone: Ext. 278

INDUSTRIAL ARTS

FACULTY:

Adams, Morgan, Nickolaisen, Scorse, Sutton

The Industrial Arts curriculum leads to the Bachelor of Science in Education degree with a major in Industrial Arts. The student must complete the required Industrial Arts courses, meet the general education requirements of the College, and complete the professional education requirements

for a teaching certificate. Industrial Arts courses required for the major meet the Missouri Certificate requirements to teach Industrial Arts in Grades K-12.

Industrial Arts majors should apply to the Department of Education for admission to teacher education during the second semester of their sophomore year. The Teacher Education section of this catalog should be consulted for criteria for admission to the professional semester.

A person choosing a single teaching field may also earn a minor in Industrial Arts. The required courses for the minor meet the Missouri Certification requirements to teach Industrial Arts in grades K-9.

BACHELOR OF SCIENCE IN EDUCATION WITH A MAJOR IN INDUSTRIAL ARTS

	Semester Hours
General Education Requirements	46
Industrial Arts & Education Requirements	80

IA 300	Woodworking & Wood Construction	4
IA 301	Wood Technology, Process & Products	4
IA 310	Introduction to Plastics*	3
IA 321	Industrial Electricity	3
IA 322	Electricity/Electronics*	3
IA 335	Shop Organization & Management	3
IA 340	Power Technology	3
Computer Aided Drafting and Design courses		9
(Must include 3 hours CAD)		
Computer Assisted Manufacturing Technology courses		7
Psy 110	Psychology of Human Development	5
Educ 200	Field Experiences	1
Educ 300	Clinical Experiences	2
Educ 302	Exceptional Child	2
Educ 330	Structures of Teaching	2
Educ 331	Microteaching	2
Educ 341	Teaching I.A. in Secondary School	2
Educ 370	Intro to Instructional Media	2
Psy 310	Educational Psychology	2
Educ 402	Foundations of Education	2
Educ 412	Measurement and Evaluation	2

Educ 422	Reading in Secondary School	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching	8
Electives (at least 5 credit hours)		5
		126

MINOR IN INDUSTRIAL ARTS

IA 300	Woodworking and Wood Construction	4
IA 310	Introduction to Plastics	3
IA 321	Industrial Electricity	3
IA 335	Shop Organization & Management	3
IA 340	Power Technology	3
Computer Assisted Manufacturing Technology Courses		4
Computer Aided Drafting and Design courses		6
		26

Suggested Order of Study

BACHELOR OF SCIENCE IN EDUCATION DEGREE

Major Code 0839
Industrial Arts Major

FRESHMAN YEAR

1st Semester	Course	Hours
Eng 101	Composition	3
Psy 120	College Orientation	1
CAM 100	Intro Mach Tool	4
CADD 110	Intro Drafting	3
CADD 115	Intro to Computer Aided Drafting	1
Hist 110	U. S. History	3
HPER 101	Intro to P.E.	2
		17

2nd Semester

CADD 130	Machine Drafting	3
Eng 102	Composition	3
Econ 180	American Economics	3
HPER 160	Personal Health	2
Math 130	College Algebra	3
Comm 100	Oral Communications	3
		17

SOPHOMORE YEAR

1st Semester		Hours
CADD 260	Computer Aided Drafting	3
Bio 101	General Biology	4
CAM 260	Fundamentals of Metallurgy	3
Art 100	Art Composition	3
IA 340	Power Technology	3
		16

2nd Semester

CADD 220	Architectural Drafting	3
Phys 100	Physical Science	5
IA 310	Intro to Plastics	3
Educ 200	Field Experiences	1
Psy 110	Psychology of Human Development	5
		17

LAW ENFORCEMENT/ MANUFACTURING TECH

JUNIOR YEAR

1st Semester

Educ 300	Clinical Experience	2
IA 300	Woodworking & Wood Construction	4
Educ 330	Structures of Teaching	2
IA 321	Industrial Electricity	3
Educ 331	Microteaching	2
Educ 370	Media	2
		15

2nd Semester

Educ 302	Exceptional Child	2
IA 301	Wood Technology	4
Gen Ed	[Fine Art or Literature]	3
IA 322	Electricity/Electronics	3
PSc 120	Gov't: U.S., State & Local	3
		15

SENIOR YEAR

1st Semester

Eng 281 or 282	American Literature	3
Educ 422	Reading in the Secondary School	2
IA 335	Shop Organization & Management	3
Psy 310	Education Psychology	2
Electives		4
		14

2nd Semester

Educ 402	Foundation of Education	2
Educ 341	Teaching I.A. in the Secondary School	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching	8
Educ 412	Measurement & Evaluation	2
		16

For additional information contact:

Mr. Dennis K. Sutton
Office: 117 Matthews Hall
Phone: 625-9305

LAW ENFORCEMENT

FACULTY:

Seneker, Head; Mosher, Richards, Spurlin, Terry, Whittle, Williams

The Associate of Science degree in Law Enforcement helps prepare students for entrance into police work, a field which has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the 4-year Bachelor of Science degree in Criminal Justice Administration. (See page 140)

ASSOCIATE OF SCIENCE IN LAW ENFORCEMENT

	Semester	Hours
General Education Requirements		24
(6 hours satisfied by required courses)		

Law Enforcement Requirements

Soc 110	Introduction to Sociology	3
Soc 210	Social Problems*	3
Soc 312	Juvenile Delinquency*	3
Soc 351	Criminology*	3
LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
LE 150	Interview and Report Writing	2
LE 180	Basic Police Academy	6
LE 200	Criminal Investigation	3
LE 210	Criminal Procedures	3
LE 290	Police Supervision and Management	3
LE 250	Criminal Law	3
Psy 100	General Psychology	3
Psy 221	Psychology of Personal Adjustment	3
PSc 120	Gov't: U.S., State and Local	3
HPER 220	First Aid	2

*See course descriptions for prerequisites.

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5505

Law Enforcement Major

FRESHMAN YEAR

1st Semester

Course		Hours
Eng 101	Composition	3
Math 110	Intro to College Math	3
Soc 110	Intro to Sociology	3
LE 100	Introduction to Law Enforcement	3
LE 110	Police Organization and Administration	2
Psy 120	College Orientation	1
HPER 160	Personal Health	2

2nd Semester

Psy 100	General Psychology	3
Phys 100	Fundamentals of Physical Science	5
Soc 210	Social Problems	3
LE 150	Interview and Report Writing	2
PSc 120	Gov't: U.S., State and Local	3
		16

Summer Semester

LE 180	Basic Police Academy	6
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SOPHOMORE YEAR

1st Semester

Comm 100	Oral Communications	3
Soc 351	Criminology	3
LE 200	Criminal Investigation	3
LE 210	Criminal Procedures	3
Psy 221	Psychology of Personal Adjustment	3
		15

2nd Semester

Soc 312	Juvenile Delinquency	3
HPER 220	First Aid	2
LE 250	Criminal Law	3
LE 290	Police Supervision and Management	3
Gen Ed	(Fine Arts)	3
	Advisor Approved Elective	3
		17

For additional information contact:

Mr. Don Seneker
Office: 104 Police Academy
Phone: 625-9302

COMPUTER ASSISTED MANUFACTURING TECHNOLOGY (CAM)

FACULTY:

Scorse, Nickolaisen

The Computer Assisted Manufacturing Technology curriculum leads to an Associate of Science degree in Manufacturing Technology. The curriculum prepares individuals for employment as technicians in the manufacturing or chemical processing industries.

The requirements for the degree provide a broad base of technical and general education courses that will assist the individual in securing employment and responding to future technological changes. The use of computers is emphasized throughout the program. The college is a National Authorized AutoCAD Training Center and VersaCAD Training Institution. The Computer Assisted Manufacturing Technology department receives many manufacturing related software grants on a regular basis. This learning environment combined with a faculty who have direct links with industry insures state-of-the-art instruction.

Computer Assisted Manufacturing Technology majors are required to take courses in mathematics, physical science, computer programming, Computer Aided Drafting and Design (CADD), Computer Numerical Control (CNC), Robotics and Automation. These courses are combined

TECHNOLOGY

MEDICAL TECHNOLOGY

with manufacturing and technical electives to provide a curriculum that will assist the individual in developing the strong, yet flexible, technical background needed in today's industrial assignment.

Many students who complete the Associate of Science Degree in Computer Assisted Manufacturing Technology can expand their education by pursuing a baccalaureate degree in Industrial Arts or Management Technology.

ASSOCIATE OF SCIENCE IN COMPUTER ASSISTED MANUFACTURING TECHNOLOGY

	Semester	Hours
General Education Requirements	24	
Computer Assisted Manufacturing Tech Requirements	28	
CAM 100	Intro to Machine Tool Processes	4
CAM 105	Intermediate Mach Tool Processes*	4
CAM 200	Advanced Mach Tool Processes*	4
CAM 250	Computer Numerical Control*	4
CAM 290	Production Planning & Control*	3
CADD 110	Introductory Drafting	3
CADD 130	Machine Drafting*	3
Math 112	Trigonometry	3
Manufacturing Technology Electives (at least 10 hours)	10	
CAM 160	Inspection and Gaging*	2
CAM 260	Fundamentals of Metallurgy	3
IA 310	Introduction to Plastics*	3
IA 321	Industrial Electricity	3
IA 322	Electricity/Electronics*	3
IA 340	Power Technology	3
CADD 115	Intro to Computer Aided Drafting	1
CADD 202	Tool Design*	3
CADD 204	Mechanical Design*	3
CADD 260	Computer Aided Drafting*	3
Comp 115	Computing I*	3
CAM 298	Special Topics in Manufacturing Tech*	1-8
CAM 490	Internship in Manufacturing Tech*	1-8
CAM 499	Independent Study in Manufacturing Technology*	1-3

62

*See course descriptions for prerequisites

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5399

Computer Assisted Manufacturing Technology Major

FRESHMAN YEAR

FRESHMAN YEAR		
1st Semester		
Course		Hours
CAM 100	Intro Machine Tool Processes	4
CADD 110	Intro Drafting	3
Math 130	College Algebra (or 30 Intermediate Algebra)	3
Eng 101	Composition	3
HPER 101	Intro to P.E.	2
Psy 120	College Orientation	1
		16

2nd Semester		
CAM 105	Intermediate Machine Tool Processes	4
CADD 130	Machine Drafting	3
Math 112	Trigonometry	3
Psy 100	General Psychology or Soc 110	
	Intro Sociology	3
Elective		3

SOPHOMORE YEAR

SOPHOMORE YEAR		
1st Semester		
CAM 200	Advanced Machine Tool Processes	4
Gen Ed	(Hist 110, Hist 120 or PSc 120)	3
Gen Ed	(Fine Art or Literature)	3
Technical Electives		6
		16
2nd Semester		
CAM 250	Numerical Control & Comp Numerical Control	4
CAM 290	Production Planning and Control	3
Phys 100	Intro to Physical Science	5
Technical Electives		4
		16

For additional information contact:
Mr. John T. Scorse
Office: 115 Technology Building
Phone: 625-9327

MEDICAL TECHNOLOGY

FACULTY:

Baiamonte, Mosher

The Bachelor of Science in Medical Technology degree is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all Bachelor of Science degree programs, required science and other supportive courses, plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the schools of Medical Technology at St. John's Regional Medical Center, Joplin; St. John's Regional Medical Center, Springfield, MO; Lester E. Cox Medical Center, Springfield, MO; and Research Medical Center, Kansas City, MO. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Students should file applications with the professional school during the early fall of the junior year, or approximately ten (10) months prior to the date expecting to enter.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based school or through Missouri Southern depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

**BACHELOR OF SCIENCE IN
MEDICAL TECHNOLOGY**

Semester Hours

**General Education
Requirement 46******Biology Requirement**

Bio 121	General Zoology	4
Bio 231	Fundamentals of Medical Microbiology*	5
Bio 305	Genetics*	4
Bio 306	Human Physiology and Anatomy*	5
Bio 456	Immunology*	3
Bio 361	Parasitology*	4
OR		
362	Virology*	3

Chemistry Requirement

Chem 101	General Chemistry I*	5
Chem 102	General Chemistry II*	5
Chem 201	Analytical Chemistry I*	5
Chem 300	Introduction to Modern Organic Chemistry*	5
Chem 351*	Biochemistry***	4
OR		
421	Analytical Chemistry II* 5	

Other Requirements

Phys 151	Elementary College Physics I*	5
Phys 152	Elementary College Physics II*	3
Math 140	Algebra and Trigonometry	5
Comp 115	Computing I	3

**400 Level Medical Technology Courses
(at Hospital)**32
130-132

*See course descriptions for prerequisites.

**Required Biology, Physics, and Mathematics courses simultaneously satisfy General Education and Major requirements.

***St. John's, Springfield, MO, requirement

Suggested Order of Study**BACHELOR OF SCIENCE DEGREE**

Major Code 1223

Medical Technology Major**FRESHMAN YEAR**1st Semester
Course

Chem 101	General Chemistry I	Hours
Eng 101	Composition	5

Math 140	Algebra and Trigonometry
HPER 101	Physical Activity
Psy 120	Freshman Orientation

2nd Semester

Chem 102	General Chemistry II
Bio 121	General Zoology
Gen Ed	[History 110 or 120]
Eng 102	Composition
Comp 115	Computing I

SOPHOMORE YEAR**1st Semester**

Chem 201	Analytical Chemistry I (Chem 102)
Bio 231	Fundamentals of Medical Microbiology
Gen Ed	[Literature]
Gen Ed	[Behavioral or Social Science]
HPER 160	Personal Health

2nd Semester

Chem 300	Intro to Modern Organic Chemistry (Chem 102)
Bio 305	Genetics
Gen Ed	[Communications]
Gen Ed	[PSc 120]
MT 200	Intro to Medical Technology

JUNIOR YEAR**1st Semester**

Phys 151	Elementary College Physics I (Math 140)
Bio 306	Human Physiology and Anatomy (Bio 121)
OR	
Bio 362	Virology
Gen Ed	[Literature or Fine Art]

2nd Semester

Chem 421	Analytical Chemistry II (Chem 201)
Phys 152	Elementary College Physics II (Phys 151)
Bio 456	Immunology
Gen Ed	[Literature or Fine Art]
Gen Ed	[Econ 180]

SENIOR YEAR**1st Semester**

(At an approved School of Medical Technology)	
MT 401	Clinical Chemistry
MT 403	Hematology

2nd Semester

(At an approved School of Medical Technology)	
MT 402	Clinical Microscopy
MT 404	Serology
MT 405	Clinical Microbiology
MT 406	Immunohematology
MT 407	Special Topics in Medical Technology

() Prerequisites

[] Department Recommendations

5 For additional information contact:
2 Dr. Vernon Baiamonte
1 Office: 218 Reynolds Hall
16 Phone: Ext. 241
OR

Dr. Melvyn Mosher
5 Office: 220 Reynolds Hall and 105 Police Academy
4 Phone: 625-9382

MILITARY SCIENCE**FACULTY:**

5 Roberts, Head; Hellams, Dobbs, Whitworth

5 Military Science provides an additional dimension to a student's educational program. Students who participate in Military Science courses receive leadership, managerial and confidence-building training that will be of great value to them in any career they seek.

The Military Science program at Missouri Southern is divided into two elective programs: the Basic Course and the Advanced Course.

The Basic Course encompasses five freshman and sophomore level courses. There are no prerequisites for participating in any of the five courses offered; they may be taken in any sequence. Participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit and do not have uniform or appearance requirements. Basic course subjects provide students with an understanding of the United States Army. Subjects taught in the Basic Course include Leadership, Survival, Marksmanship, Rappelling, Land Navigation, World Conflicts, Terrorism, and History of ROTC. These courses will also qualify students for the Advanced Course in the event that they elect to continue in the Military Science program.

The Advanced Course includes the Junior and Senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve or the Army National Guard. All Advanced Course students receive \$100 per month for up to 10 months each year while enrolled in the Advanced Course. They will also attend ROTC Advanced Camp, normally during the summer between

the Junior and Senior years. Compensation is received for travel and for time spent at camp. Advanced Course students, upon successful completion of the Advanced Course, are commissioned Second Lieutenants. They may choose to serve either three years in the Active Army, or three to six months in the Active Army and fulfill the remainder of their commitment in the Army Reserve or Army National Guard.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in each of the following areas: behavior, written communication skills, military history, national security policy, and management.* Course work in management and national security policy may be deferred, with the permission of the department head, if completion of these courses would require the student to carry an academic overload. The military history requirement is satisfied by taking Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any fulltime college student may apply. All scholarships pay for tuition, books, fees and other educational expenses. They also pay the student \$100 a month during each academic year.

Students with at least two academic years remaining in their course of study (undergraduate, graduate or a combination of both) who have not completed more than two semesters of Military Science can complete the Basic Course requirements by participating in Basic Camp or by attending Summer School. Pay and allowances are received for Basic Camp participants. (See MS 298 and MS 190)

All Non-U.S. citizens desiring to enroll in the Advanced Course must have department permission prior to enrolling.

Students with prior Military Service or Military Science training, including Junior ROTC, may be eligible for advanced placement in the Military Science program. A minor in Military Science may be obtained by completion of not less than 21 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for Freshman and Sophomore-level courses except MS 122. Advanced Course students are furnished all required uniform items.

*To determine suitable courses, contact the Military Science Department.

NURSING

ASSOCIATE OF SCIENCE DEGREE

FACULTY:

Ipock, Director; Ackiss, Box, Elgin, Jacobs, Ketchum, Mathews, Ross

Upon satisfactory completion of the Associate of Science degree in Nursing, the graduate is eligible to apply to write the examination for licensure as a Registered Nurse (R.N.), barring restrictions stated in the Nursing Practice Act 335.066, 1,2(1)-(14) of the state of Missouri. This program is NLN accredited. Admission to Missouri Southern does not automatically confer admission to the nursing program. In addition to meeting admission requirements for the College, candidates who are interested in a career in nursing as a Registered Nurse (R.N.) are required to apply for admission to the Department of Nursing office, Kuhn Hall. Applications should be submitted prior to February 1 preceding the Fall Semester which you wish to enter. Each application is reviewed by the Selection Committee for the Department of Nursing.

In determining a candidate's eligibility for admission basic qualifications compatible with the profession of nursing are given consideration including test results, demonstrated scholastic capability and references establishing personal abilities. Specific admission criteria are available from the nursing department in Kuhn Hall.

Based upon the Committee's evaluation, each application is placed in one of three categories: 1) approved for admission; 2) approval on condition that certain stated requirements are met; or 3) denied admission.

Tuition and fees for nursing students include those listed for all college students. Additional expenses applicable to nursing students are:

1. school uniforms, supplies and equipment, minimum of \$232;
2. graduation pin, uniform and licensing application fee, minimum of \$180;
3. eight week summer session: transportation, room and meals for off campus clinical laboratory. Costs are variable based upon individual arrangement, laboratory schedules and available housing facilities.

Courses to complete General Education requirements should be selected with advisor approval. Nursing courses must be earned in the prescribed sequence. Supporting science courses must be completed with a grade of C or above, prior to or concurrent with the designated nursing course, for retention in the nursing program. (See Suggested Order of Study)

Supervised clinical laboratory periods are an integral part of each nursing course. During clinical laboratory periods students give direct care to patients under the guidance of the nursing faculty. Clinical laboratory periods are conducted in a variety of community health agencies. Three major agencies include: Freeman Hospital, St. John's Regional Medical Center, and Oak Hill Hospital, Joplin.

ASSOCIATE OF SCIENCE DEGREE IN NURSING

	Semester Hours
General Education Requirements	24
(Some satisfied by required courses)	
Nursing Requirements	52
Nurs 100	Introduction to Nursing Process 6
Nurs 110	Nursing Process with the Developing Family* 9
Nurs 130	Nursing Process in Psychiatric-Mental Health Nursing* 4
Nurs 220	Nursing Process with Adults I* 9
Nurs 240	Nursing Process with Adults II* 9
Bio 306	Human Physiology and Anatomy* 5
Chem 100	Introduction to Chemistry* 5
Bio 231	Fundamentals of Medical Microbiology* 5
	76

*See course descriptions for prerequisites

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5208

Nursing Major

FRESHMAN YEAR

1st Semester

Course	Hours
Nurs 100 Introduction to Nursing Process	6
Bio 306 Human Physiology and Anatomy*	5
Eng 101 Composition	3
Math 30 Intermediate Algebra (or above)	3
	17

*Placement in Bio 306 will depend on pre-entrance Zoology test scores or completion of Bio 121. This course must be completed prior to or concurrent with Nurs 100.

2nd Semester

Nurs 110 Nursing Process with Developing Family	9
Chem 100 Introduction Chemistry**	5
Psy 100 General Psychology OR	
Soc 110 Introduction to Sociology	3
	17

**Chem 100 must be completed prior to or concurrent with Nurs 110.

Summer

Nurs 130 Nursing Process in Psychiatric-Mental Health Nursing	4
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SOPHOMORE YEAR

1st Semester

Nurs 220 Nursing Process with Adults I	9
Bio 231 Fundamentals of Medical Microbiology***	5
Gen Ed (Literature or Fine Art)	3
	17

***Bio 231 must be completed prior to or concurrent with Nurs 220.

2nd Semester

Nurs 240 Nursing Process with Adults II	9
HPER 101 Intro to Physical Activity	2
Comm 100 Oral Communications	3
Gen Ed (PSc 120 or Hist 110)	3
	17

For additional information contact:
Dr. Betty Ipock
Office: 210B Kuhn Hall
Phone: 625-9322

NURSING

BACHELOR OF SCIENCE DEGREE

FACULTY:

Ipock, Director; Ayton, Box

The Bachelor of Science in Nursing completion program is designed exclusively for

Registered Nurses. The program provides educational opportunities relevant to the interests and needs of experienced nurses. Flexible scheduling is incorporated into the program when feasible.

One of the basic assumptions of the program is that the student has achieved nursing knowledge through successful completion of a generic program preparing individuals to become registered nurses. Applicants who have not received college credit for nursing courses in the basic program may challenge a maximum of 30 credit hours of the nursing course requirement through examination for credit by examination.

Admission to the program is on a selective basis. The admission criteria are: current registered nurse licensure in the state of Missouri (or eligibility for licensure); one year minimum practice experience in nursing or two years of practice within the five (5) year period prior to admission; a cumulative grade point average of 2.5 (on a 4.0 scale) or above on at least sixty (60) credit hours of college level courses; documentation of current professional liability insurance coverage; one transcript copy from each college or university attended; graduation from a state-approved and/or accredited basic nursing program; three references and a personal interview.

Priority for enrollment in the nursing courses will be given to students who have completed prerequisite courses through continuous enrollment.

Students entering the Bachelor of Science in Nursing completion program must complete the upper level division courses within five (5) consecutive years.

Application forms and additional information are available in the Nursing Department in Kuhn Hall.

Readmission to the program will be contingent upon space available.

BACHELOR OF SCIENCE DEGREE IN NURSING

General Education Requirements (est. add.)	Semester Hours
Nursing Requirements	33
	31

Nurs 300	Process of Professional Nursing	3
Nurs 310	Nursing Management and Group Dynamics	3
Nurs 330	Advanced Health Assessment*	6
Nurs 400	Nursing Process in Community Health*	6
Nurs 410	Gerontological Nursing*	3
Nurs 420	Introduction to Nursing Research*	6
Bio 308	Pathophysiology	4
		64

*See course descriptions for prerequisites

Suggested Order of Study

BACHELOR OF SCIENCE DEGREE

Major Code 3200

Nursing Major

JUNIOR YEAR

1st Semester

Course	Hours
Social Science (Psy or Soc)*	3
Gen Ed (Math)**	3
Nurs 300 Process of Professional Nursing	3
Nurs 310 Nursing Management and Group Dynamics	3
Bio 308 Human Pathophysiology	4
	16

2nd Semester

Gen Ed (Economics)**	3
Nurs 330 Advanced Health Assessment	6
Gen Ed (Composition)**	3
Lit OR Fine Art (Elective)*	3
	15

SENIOR YEAR

1st Semester

Nurs 400 Nursing Process in Community Health	6
Psy 320 Statistics	3
History OR Political Science*	3
Educ 330 Structure of Teaching*	2
Educ 331 Microteaching*	2
	16

2nd Semester

Upper Division Nursing Elective*	3
Nurs 410 Gerontological Nursing	3
Nurs 420 Introduction to Nursing Research	6
Physical Education*	2
Humanities Elective*	3
	17

*Courses which could be taken in advance of selection into the upper division nursing program.

**It is expected that lower division courses will be taken prior to matriculation into the upper division program.

For additional information contact:
Dr. Betty Ipock
Office: 210B Kuhn Hall
Phone: 625-9322

TECHNOLOGY

PRE-PROFESSIONAL, PARAMEDIC, RADIOLOGIC TECH

PRE-PROFESSIONAL AND TECHNOLOGY CURRICULA

PRE-PROFESSIONAL ASSOCIATE OF ARTS DEGREE

This curriculum is designated for students who are attending Missouri Southern to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements for paramedic programs and desire a college degree may choose this degree program.

Curriculum Requirements Pre-Pharmacy

Major Code 7007	
General Education (see page 41)*	5
Eng 101 and 102 English	
Composition**	6
Chem 101 and 102 General	
Chemistry**	10
Math 150 Calculus**	5
Social Sciences/Humanities**	14
Bio 306 Human Physiology and	
Anatomy	5
Electives	17
	62

*28 hours of General Education requirements are met by UMKC School of Pharmacy minimum requirements.

**UMKC School of Pharmacy minimum requirements.

PARAMEDIC PROGRAM

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology also offers certificate programs preparing the student to take State Certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri State requirements.

ASSOCIATE OF ARTS REQUIREMENTS

General Education Requirements	29
Bio 306 Human Physiology and	
Anatomy*	5
EMT Course	6
EMT-P Course	12
Electives	10
	62

* Satisfies General Education requirements.

RADIOLOGIC TECHNOLOGY

FACULTY:

Beals

The Associate of Science Degree in Radiologic Technology combines General Education courses, supportive courses in the Behavioral Sciences and Natural Sciences, and special courses in the field of Radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of General Education requirements for the Associate of Science Degree, all Radiologic Technology courses, Bio 306, Bio 240, Chem 100, and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Missouri Southern. These special admission procedures should be initiated a minimum of six months before the date the student would plan to enter the program. Students may enter the program only at the beginning of the Fall Semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in Radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating Associate of Science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the General Education requirements for the Associate of Science degree plus a concentration of courses in one of the subject-matter areas of business (Accounting and Secretarial Procedures or Business Management), behavioral sciences, or natural science (concentration in either biology, chemistry, or physics).

ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY

	Semester Hours
General Education Requirements	24
Radiology Requirements	55
Rad 101 Introduction to Radiology*	3
Rad 111 Medical Terminology	3
Rad 121 Patient Care and Special Procedures in Radiology	3
Rad 132 Principles of Radiographic Exposure	3
Rad 142 Radiographic Positioning I	3
Rad 160 Film Critique	2
Rad 170 Radiologic Physics	3
Rad 180 Practicum in Radiology	4
Rad 241 Radiographic Positioning II	3
Rad 252 Radiographic Positioning III	3
Rad 282 Practicum in Radiology II	2
Rad 290 Practicum in Radiology III	4
Rad 299 Advanced Radiology	3
Bio 306 Human Physiology and Anatomy*	5
Chem 100 Elementary Chemistry**	5
Psy 221 Psychology of Personal Adjustment	3
Bio 240 Radiation Biology*	3

COURSES/AVIATION, COMPUTER SCIENCE

*See course descriptions for prerequisites
 **Satisfies General Education Requirement

Suggested Order of Study

ASSOCIATE OF SCIENCE DEGREE

Major Code 5207

Radiologic Technology Major

FRESHMAN YEAR

Fall Semester

Course	Hours
Bio 306 Human Physiology and Anatomy**	5
Rad 101 Intro to Radiology	3
Rad 170 Radiologic Physics	3
Rad 142 Radiographic Positioning I	3
Psy 120 College Orientation	1
HPER 101 Physical Education	2
	17

Spring Semester

Math 130 College Algebra	
OR	
Math 30 Intermediate Algebra	3
Psy 100 General Psychology	3
Bio 240 Radiation Biology	3
Rad 132 Principles of Radiographic Exposure	3
Rad 241 Radiographic Positioning II	3
	15

Summer*

Rad 160 Film Critique	2
Rad 180 Practicum in Radiology I	4
	6

SOPHOMORE YEAR

Fall Semester

Chem 100 Introductory Chemistry	5
Eng 101 Composition	3
Psy 221 Psychology of Personal Adjustment	3
Rad 111 Medical Terminology	3
Rad 252 Radiographic Positioning III	3
	17

Spring Semester

Gen Ed Hist 110 or PSc 120	3
Comm 100 Oral Communications	3
Rad 121 Patient Care and Special Procedures	3
Rad 282 Practicum in Radiology II	2
Gen Ed Literature or Fine Arts	3
Elective	3
	17

Summer

Rad 290 Practicum in Radiology III	4
Rad 299 Advanced Radiology	3
	7

*Summer classes meet a minimum of 12 weeks.

**Placement in Bio 306 will depend on pre-entrance zoology test scores or completion of Bio 121.

For additional information contact:

Mr. Wiley Beals
 Office: 300 Kuhn Hall
 Phone: 625-9322
 OR

Mr. James K. Maupin
 Office: 113 Police Academy
 Phone: 625-9328

SCHOOL OF TECHNOLOGY COURSE DESCRIPTIONS

AVIATION (Av)

Basic Pilot Training

15.0801-200

5 hrs. cr.

An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

COMPUTER SCIENCE (Comp)

Introduction to Data Processing (F,S)

11.0101-100

3 hrs. cr.

Illustrates the use of computers in facilitating the processing of information used by society in our daily lives. Looks at the hardware and software components of computer systems and how they work together. Considers number systems, basic problem analysis, logical block diagramming and familiarization with higher-level programming languages. Satisfies the need for Computer Literacy for today's educated person; a televised version of this course similarly satisfies such a need. Three hrs. lecture per week.

Introduction to Microcomputer Use (F,S)

11.0201-105

3 hrs. cr.

Train persons not necessarily employed as computer professionals who nevertheless have a need to use a microcomputer in their careers. Using a wide variety of packaged software, the student is shown how the microcomputer can be put to best use in a variety of applications with a minimum of programming effort. Three hrs. lecture per week. Supervised labs by arrangement; open labs as needed.

Computing I (F,S)

11.0201-115

3 hrs. cr.

An introduction to: (1) computer vocabulary; (2) computer coding systems; (3) microcomputer hardware and software; (4) problem analysis and program design; (5) program development and testing using BASIC. Students who have one unit of credit for a high school computer programming course, or the equivalent and 3 units of high school mathematics need not take this class unless they wish. Three hrs. lecture per week. Labs by arrangement.

Computing II (F,S)

11.0201-120

3 hrs. cr.

An introduction to: (1) mainframe hardware; (2) mainframe operating systems and program development software; (3) structured program design concepts and techniques; (4) program development and testing using a structured language. Three hrs. lecture per week. Labs by arrangement. This class is a prerequisite for Comp 230, 234, 240 & 301. Prerequisite: Math 130 or 131; Comp 115 or 1 unit of high school programming or equivalent and 3 units of high school mathematics.

Adv Personal Computing w/ Graphics (F,S)

11.0201-200

3 hrs. cr.

An introduction to: (1) knowledge, skills and programming techniques which are needed in order to develop microcomputer software for business and industry; (2) techniques for designing and producing microcomputer graphics displays. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 115 or 1 unit of high school computer programming or equivalent knowledge and 3 units of high school mathematics.

Block Structured Programming (DEMAMD)

11.0201-210

3 hrs. cr.

Introduces the practice of logical block structured, hierarchical design of programs with strong data typing and familiarizes the student with the modern languages which best support these concepts. The languages Pascal, Ada, PL/I, and Modula will be presented with particular emphasis and practice in the language Pascal. The ability to efficiently design and program significant tasks in Pascal will be the primary goal. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 115 or equivalent.

Report Program Generation (F,S)

11.0201-230

3 hrs. cr.

Introduces one or more programming languages which are designed for quick and efficient production of business reports. Course content will include language syntax and practice in preparing, compiling and executing applications of increasing complexity. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 120.

TECHNOLOGY

COURSES/INFORMATION SCIENCE

Business Data Processing Techniques (F)

11.0201-234 3 hrs. cr.
Methods and techniques of solving business related problems using a business oriented language (COBOL) on a digital computer, including payroll systems, inventory control, billing systems, sorting techniques, and file maintenance. Three hrs. lecture per week w/ open labs to complete assignments. Prerequisite: Comp 120.

Statistical Computer Applications (F,S)

11.0201-240 3 hrs. cr.
A continuation of programming technique/development in a procedural language. Principles presented in previous courses will be employed in this course. Emphasis on non-routine types of applications, including quality control, statistics, curve fitting, forecasting, etc. Three hrs. lecture per week; open labs as required. Prerequisite: Comp 120 (Computing II).

Selected Topics in Comp Science (Demand)

07.0305-298 1-8 hrs. cr.
Special topic or topics not normally included in another course. Prerequisites will be specified by the department in a syllabus.

Principles of Digital Computing (F,S)

11.0401-301 3 hrs. cr.
Provides the necessary foundation for the continuing study of computing machines. Includes Concepts of notation; Binary system; Systems conversion; Boolean Algebra; Karnaugh map simplifications; Computer architecture; Micro, Machine, and Assembler programming, Data structures, Simple parsing. Three hrs. lecture per week; Labs by arrangement. Prerequisite: Comp 120.

Systems Concepts (F,S)

11.0501-302 3 hrs. cr.
Design characteristics of the most common types of on-line business computer applications. Includes the study of management information systems, accounting information systems and systems analysis design. Of interest to computer programmers, systems analysts, accountants, and business managers and anyone who will be faced with the challenge of beginning to develop an on-line design. Features a practical rather than a theoretical approach to systems study. Three hrs. lecture per week. Prerequisite: Comp 230 or above.

COMPUTER/INFORMATION SCIENCE (CIS)

Microcomputer Applications and Management (F,S)

11.0601-305 3 hrs. cr.
Microcomputers, their operating systems, and representative, "user friendly" software packages with applications to various fields. Emphasis on making wise choices of equipment, applications packages, and appropriate applications. Primarily for non-computer science majors, though majors and minors may use it as a professional or general elective. Credit may not be allowed for both GB 237, Managerial D.P. and this course. Prerequisites: Math 110 or higher and upper division standing or consent of instructor.

Operations Modeling (F)

11.0401-320 3 hrs. cr.
Analytical and simulation techniques used in the modeling of business operations for the purpose of managerial decision support. Typical problem areas covered include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding, portfolio analysis, etc. Three hrs. lecture per week. Labs by arrangement. Prerequisite: Comp 120 and Math 310, 361 or GB 321 and upper division standing or consent of instructor.

Assembler Language (F)

11.0201-330 3 hrs. cr.
An introduction to a computer's low level programming. Topics will include: an introduction to assembler language format, decimal and integer arithmetic, editing, and execution instructions. Also debugging program construction will be applied. Numerous problems will be assigned. Three hrs. lecture per week. Prerequisite: One 200-level programming class.

Advanced Structured COBOL (SPRING)

11.0201-334 3 hrs. cr.
Emphasis on on-line or real-time programming of business applications. File creation and maintenance, structured methodologies and advanced features of COBOL are major topics. Three hrs. of lecture per week and free lab time as student requires. Prerequisite: CIS 234 Bus. DP Tech (COBOL).

Analog Methodology w/ Digit Computers (S)

11.9999-340 3 hrs. cr.
Simple methods and techniques of solving systems of simultaneous differential equations on digital computers. Particularly appropriate for mathematics, physics, and engineering transfer students. Includes data flow model techniques, the simulation of non-linear functions, block dia-

gramming of systems, familiarization with La Place methods. Various design problems of engineering, mathematics and physics applications and models of biological and social systems will be treated. Three hrs. lecture per week. Prerequisite: Math 250.

Teaching Computer Science in Sec School (S)

13.1399-346 2 hrs. cr.
An introduction to instructional planning, materials selection, and methods of teaching Computer Science/Data Processing subjects in Secondary School. Part of the Professional Semester.

Data Structures and Techniques (S)

11.0401-350 3 hrs. cr.
Basic concepts of information and techniques for operating on data/program structures. Develops concepts and use of program control constructs, information structures, files, searching, sorting, updating, linking, and attendant program documentation, debugging and testing. Prerequisite: Comp 120 and upper division standing or consent of instructor. Three hrs. lecture per week.

Computer Colloquium (F,S)

11.0401-400 1 hr. cr.
Individual student presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best available software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hours per week for 1 hour credit.

Internship in Computer/Information Science (demand)

11.0401-401 3-5 hrs. cr.
A limited number of Computer/Information Science students may serve an internship of 10 to 15 hours per week for up to 15 weeks. A minimum of 40 hours of experience as an intern is required for each semester hour of credit. The intern will work for a local, cooperating firm in a production data processing environment gaining valuable experience in programming and/or systems analysis and design to supplement their course work. The on-site work will be supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisites: Junior or Senior standing, department approval, overall GPA 3.4, and a CIS GPA of 3.5.

Information System Analysis (F)

11.0501-410 3 hrs. cr.
Develops the information system concept through study of structured analysis methodo-

logies. Examines the roles of systems analysis and the system analyst. Demonstrates and utilizes the basic analysis tools and techniques. Presents the process of developing systems requirements and economic specifications through a case study. Prerequisites: Upper Divisions standing, Comp 302. Three hrs. lecture per week.

Systems Design (S)

11.0501-420 3 hrs. cr.
Supervised and practical experience in designing computer based systems with emphasis in the areas of basic design tools and objectives, documentation, hardware/software selection, system controls, software design and engineering, data base development, implementation evaluation, and project management and language planning. Open labs as required. Prerequisites: CIS 410. Three hrs. lecture per week.

Operating System Software (F)

11.0401-450 3 hrs. cr.
A working view of hardware, operating software, and firmware; examines the role of JCL in a data processing environment. Systems for filing, managing data, and communicating are studied. Theory of Models of Data Base Management Systems; Database normalization, Database techniques and other DBMS topics and Network concepts. Prerequisites: A programming course and CIS 350 or department head's permission. Three hrs. lecture per week.

Compilers (S)

11.0401-460 3 hrs. cr.
Introduction to the building blocks of a compiler: lexical, syntactic, and semantic analysis, definition of the grammar, symbol table manipulation, storage allocation and code generation. Prerequisite: (CIS 330). Three hrs. lecture per week.

Seminar in Computer Science (demand)

11.0305-498 1-3 hrs. cr.
For students vocationally oriented toward automated data processing. Course content will depend on the needs of the attendees. Prerequisites: 60 hours college credit with a GPA of 3.0 or permission of the department head.

Independent Study (demand)

11.0305-499 1-3 hrs. cr.
An independent study course structured by the advisor with approval of the department head. Prerequisite: 60 hours credit with a GPA of 3.0. Registration in the course must be approved by the advisor, the department head, and the Dean of the School.

CRIMINAL JUSTICE ADMINISTRATION (CJAd)

Introduction to Security (S)

43.0103-130 3 hrs. cr.
Overview of the security industry and its role in loss prevention. Public vs private security roles for retail business, industrial, and governmental protection. Basic principles such as target hardening, current problems.

Basic Photography (F)

43.0605-210 3 hrs. cr.
Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints and enlarging. Prerequisite: Phys 100 or consent. Lab fee.

Physical Security (S)

43.0103-230 3 hrs. cr.
Physical aspects of the security industry and its role in loss prevention for retail business, industrial, and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection, survey techniques.

Legal and Technical Aspects of Firearms

43.0103-260 3 hrs. cr.
The history and development of firearms. The nomenclature of the most commonly used police firearms, and the duties and requirements of a rangemaster. The laws concerning firearms acquisitions, ownership, and use. Three hrs. lecture per week. Additional lab time arranged.

Special Topics in Criminal Justice Administration (Demand)

43.0103-298 1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of Criminal Justice Administration. Precise topics are announced, and prerequisites are stipulated in the course syllabus.

Criminal Investigation II (S)

43.0103-300 3 hrs. cr.
Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses. Prerequisite: LE 200.

Traffic Accident Investigation and Controls (F)

43.0103-310 3 hrs. cr.
Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting. Prerequisite: 3 hrs. college level mathematics.

Probation and Parole (S)

43.0103-320 2 hrs. cr.
Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects. Prerequisite: LE 100, Soc 110.

Loss Prevention Techniques (F)

43.0103-330 3 hrs. cr.
Security techniques in loss prevention, for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities. Prerequisites: CJAd 130, CJAd 230.

Administration of Security Systems (Demand)

43.0103-331 3 hrs. cr.
The security administrator's role in business, industrial and governmental protection. Organizing, training, managing, and designing security programs. Prerequisite: CJAd 130.

Basic Color Photography (S)

43.0605-340 3 hrs. cr.
Basic color theory concepts used in the production of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

Homicide Investigation (Demand)

43.0103-400 3 hrs. cr.
Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal, or criminal cause. Prerequisites: Upperclass standing, LE 200, CJAd 300 or permission.

Juvenile Procedures (F)

43.0103-410 3 hrs. cr.
Juvenile and family court procedures and substantive law as it is applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody, and development of the case. Prerequisite: LE 210 or consent.

Juvenile Corrections (S)

43.0103-411 3 hrs. cr.
Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws, and management principles of juvenile correctional institutions. Prerequisites: Soc 312, CJAd 410.

Correctional Practices (F)

43.0103-412 3 hrs. cr.
A look at the history of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.

TECHNOLOGY

COURSES/DENTAL HYGIENE

Criminal Evidence (S)

43.0103-450 3 hrs. cr.
Study of the rules of evidence, admissibility, presumptions, inferences, burden of proof, exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.

Internship in Criminal Justice (Arr)

43.0103-490 6 hrs. cr.
Extensive practical experience with an area Criminal Justice Agency, subject to individual committee approval. Not open to those who have taken LE 180 or 190. Prerequisite: Junior standing CJAd majors and consent of instructor.

Seminar in Criminal Justice (Demand)

43.0103-498 1-3 hrs. cr.
A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: consent of instructor.

Independent Study in Criminal Justice (Arr)

43.0199-499 1-3 hrs. cr.
Individually directed study for advanced majors in area of criminal justice selected with advisor approval. Proposal must be approved by program director and school dean. 3.5 GPA in major area or consent required.

DENTAL HYGIENE (DH)

Fundamentals of Dental Hygiene I (F)

17.0102-101 4 hrs. cr.
Introduction to the fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in a clinical laboratory setting. Two hrs. lecture; 6 hrs. lab per week.

Fundamentals of Dental Hygiene II (S)

17.0102-102 4 hrs. cr.
A continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in a clinical laboratory setting. Two hrs. lecture; 6 hrs. lab per week. Prerequisites: DH 101 with a minimum grade of C.

Dental Morphology (F)

17.0102-140 1 hr. cr.
Detailed study of the morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

Oral Histology and Embryology (F)

17.0102-150 3 hrs. cr.
Study of the gross and microscopic development of the teeth, supportive structures of the teeth, and embryology and anatomy of the head and neck region. Two hrs. lecture, 3 hrs. lab per week.

Dental Radiology (S)

17.0102-160 2 hrs. cr.
Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed; principles of radiation safety are emphasized. One hr. lecture; 3 hrs. lab per week.

Clinical Dental Hygiene I (Summer)

17.0102-190 3 hrs. cr.
Introduction to the clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, one seminar, and 16 hrs. lab per week. Prerequisite: DH 102 with a minimum grade of C.

Dental Health Education (F)

17.0102-200 3 hrs. cr.
Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations; practical experience in public schools and community groups; experience in providing dental health education to mentally and physically handicapped and geriatric patients. Discussion of the eight recognized dental specialties including their relationship to preventive dentistry. Three hrs. lecture per week.

Perio-Pathology (Summer)

17.0102-210 3 hrs. cr.
Lectures and laboratory periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation, and immunity. Etiology, classification, treatment, and prevention of periodontal disease is stressed. Techniques for local anesthesia and pain control are discussed and practical experience in infiltration anesthesia is attained during the laboratory sessions. Six hrs. lecture, 2 hrs. lab per week.

Dental Materials (S)

17.0102-220 3 hrs. cr.
A study and practicum in working with various restorative and impression materials used in dentistry. Includes pouring of plaster and stone casts. Two hrs. lecture; 2 hrs. lab per week.

Clinical Dental Hygiene II (F)

17.0102-290 5 hrs. cr.
Continuation of DH 190 with added responsibilities as skills develop. Information on advanced dental hygiene techniques is presented in the lecture portion of the course. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture; 16 hrs. lab per week. Prerequisites: DH 190 with a minimum grade of C.

Nutrition (S)

17.0102-310 2 hrs. cr.
Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients is covered. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

Pharmacology (F)

17.0102-320 2 hrs. cr.
Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action, and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

Ethics and Community Dentistry (S)

17.0102-330 3 hrs. cr.
Professional ethics and commitment, professional organizations, state practice acts, and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy, health legislation, federal, state, and local health programs, needs and demands for dental care and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with a minimum grade of C.

Clinical Dental Hygiene III (S)

17.0102-390 5 hrs. cr.
Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures is provided including experience in extended campus facilities. Principles of four-handed dentistry are presented in the lecture portion of the course. One hr. lecture; 16 hrs. lab week. Prerequisite: DH 290 with a minimum grade of C.

COURSES/DRAFTING ENVIRONMENTAL HEALTH

COMPUTER AIDED DRAFTING AND DESIGN (CADD)

Introductory Drafting (F,S)

48.0105-110 3 hrs. cr.
An introduction to drafting, including the use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries, and pictorial drawings. One hr. lecture and 4 hrs. lab per week. Corequisite CADD 115.

Intro to Computer Aided Drafting (F,S)

48.0105-115 1 hrs. cr.
Introduction to the field of computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with the consent of the instructor. One hr. lecture per week; open labs as required.

Descriptive Geometry (S)

48.0105-120 3 hrs. cr.
Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture and 4 hrs. lab per week. Prerequisite: CADD 110.

Machine Drafting (S)

48.0105-130 3 hrs. cr.
Detail and assembly drawings of machines, and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. One hr. lecture and 4 hrs. lab per week. Prerequisite: CADD 110.

Tool Design (Demand)

48.0105-202 3 hrs. cr.
Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture and 4 hrs. lab per week. Prerequisite: CADD 130.

Mechanical Design (F)

48.0105-204 3 hrs. cr.
Principles of mechanical design with emphasis on the proper selection, function and graphical representation of common machine components. Formulas, vendor catalogs and commercial computer software will be used to select components. One hr. lecture and 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

Technical Illustration (S)

48.0105-210 3 hrs. cr.
Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views, and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board, lettering systems and air brushes will be introduced. One hr. lecture and 4 hrs. lab per week. Prerequisite: CADD 110 or consent of the instructor.

Architectural Drafting (S)

48.0105-220 3 hrs. cr.
Instruction in the principles of architectural design; preparing sets of working drawings; building details and use of modern construction materials for residential building. Manual and computer aided design techniques will be used throughout the course. One hr. lecture and 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Survey & Mapping (F)

15.0203-230 3 hrs. cr.
Theory, principles, and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations, and preliminary surveys will be stressed. Calculations will be conducted manually and with commercial computer software. One hr. lecture and 4 hrs. lab per week. Prerequisite: CADD 110 or consent of the instructor.

Computer Aided Drafting (F,S)

48.0105-260 3 hrs. cr.
Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD System to prepare drawings in one or more drafting fields. Three 1-hour lectures per week; open labs as required. Prerequisites: CADD 110, CADD 115, and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220, or CADD 230. A student having industrial drafting experience may be admitted with the consent of the instructor if CADD 115 or equivalent industrial training course has been completed.

Internship in Drafting & Design (demand)

48.0105-490 1-8 hrs. cr.
A structured work experience in Drafting/Design at an institution, facility or industry not directly related to the Missouri Southern campus. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site profes-

sional who is not a Missouri Southern faculty or staff member. The on-site professionals will supervise student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of Drafting & committee approval.

Special Topics Draft/Des (Demand)

48.0105-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites determined by the department and stipulated in a course syllabus.

Seminar in Drafting & Design (Demand)

48.0105-498 1-3 hrs. cr.
Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An Associate Degree in Drafting & Design or senior standing in Management-Technology or Industrial Arts.

Independent Study in Drafting & Design (Demand)

48.0105-499 1-3 hrs. cr.
Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hours of drafting with 3.0 GPA and permission of instructor, Department Head and School Dean.

ENVIRONMENTAL HEALTH TECHNOLOGY (EHT)

Man and Environment (F,S)

26.0101-110 4 hrs. cr.
A survey of environmental aspects of biology including pollution, land use, population, energy and organismic responses to these problems. Cellular, systemic, and genetic mechanisms are included. Three lectures and one 2 hr. lab per week. Fulfills General Education requirement for biology.

Selected Topics in Environmental Health

18.0799-298 1-8 hrs. cr.
Special topics in Environmental Health not normally included in another course. Prerequisites: EH 110 or Bio 101, Bio 112 and Bio 122.

Earth Environments (Geol 300)

40.0601-300 4 hrs. cr.
Describes aspects of the solid earth, the liquid environments of earth and our atmosphere. Interactions of these and their relationships to human society. Prerequisite: Phys 100.

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COURSES/INDUSTRIAL ARTS, LAW ENFORCEMENT

Environmental Biology (F)

26.0603-312 4 hrs. cr.
Environmental factors and their interactions with living things. Emphasis on human ecology and wise natural resource utilization. Three lectures and one 2 hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110, or permission of the instructor.

Environmental Health (S)

26.0704-370 4 hrs. cr.
Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures and one 2 hr. lab per week. Prerequisite: Bio 211 or 231, Junior standing in science or permission of instructor.

Internship in Environmental Health (F,S)

18.0799-450 1-8 hrs. cr.
Experience in actual observation and work at health facilities, health regulation agencies and/or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in the environmental health or biology curricula.

Seminar in Environmental Health

18.0799-498 1-3 hrs. cr.
For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisite: Junior standing; 20 hours in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology, or permission of the instructor required.

Problems in Environmental Health

18.0799-499 1-3 hrs. cr.
Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisite: A minimum GPA of 3.0 in 20 hours of environmental health and/or biology.

INDUSTRIAL ARTS (IA)

Woodworking and Wood Construction (F)

13.1309-300 4 hrs. cr.
Study of basic woodworking tools and machines. Special attention to the design, construction, and finishing of wood projects. One hr. lecture; 6 hrs. lab per week.

Wood Tech, Processes and Products (S)

13.1309-301 4 hrs. cr.
Wood technology—including manufacturing of lumber, seasoning, grading, buying, properties, structure and characteristics of wood. Special processes and techniques used in the wood-working industry such as wood lamination, peg diffusion, wood flour, particle moulding, wood plastic composition (WPC), ammonia bending, mass production and jigs and fixtures will be introduced. Students will design and finish projects involving the use of special processes, techniques, jigs and fixtures. One hr. lecture; 6 hrs. lab per week.

Introduction to Plastics (S)

13.1309-310 3 hrs. cr.
A general course designed to develop a knowledge of the plastics industry with an emphasis on current industrial materials and processing. One hr. lecture; 4 hrs. lab per week. Prerequisite: CAM 100.

Industrial Electricity (F)

13.1309-321 3 hrs. cr.
The principles of electricity as related to industrial applications. Emphasis on safety in electricity, electron theory, electrical quantities, circuits, cells, batteries, magnetism, transformers, capacitance, resistance, generators, and motors as applied to residential and commercial wiring. Two hrs. lecture; 2 hrs. lab per week.

Electricity-Electronics (S)

13.1309-322 3 hrs. cr.
Basic electronics, DC and AC circuits and circuit analysis. Emphasis on the use of resistors, capacitors, transistors and power sources in the control of electronic circuits. Two hrs. lecture; 2 hrs. lab per week. Prerequisite: IA 321.

Shop Organization and Management (F)

13.1309-355 3 hrs. cr.
Introduction to the organization and management of the Industrial Arts shop. Topics include the management of the layout, equipment, inventories, budgeting and purchasing procedures as related to the school shop. Three hrs. lecture per week.

Power Technology (F)

13.1309-340 3 hrs. cr.
A survey of various sources and applications of power and energy. Topics covered include the internal combustion engine, solar, thermal, nuclear, electrical and other potential sources of power. Laboratory sessions on the application of basic concepts through demonstrations and construction of projects. Two hrs. lecture; 2 hrs. lab per week.

Selected Topics in Ind Arts (Demand)

13.1309-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites are to be determined by the department of Industrial Arts and stipulated in a course syllabus.

Seminar in Industrial Arts (Demand)

13.1309-498 1-3 hrs. cr.
A seminar for upper division Industrial Arts majors. Topics will be announced each time the course is offered. Prerequisite: Senior standing or permission of the instructor.

Independent Study Ind Arts (Demand)

13.1309-499 1-3 hrs. cr.
Individually directed reading, research, and projects in selected areas of Industrial Arts for advanced majors. Scope, depth, area of concentration and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Advanced standing in Industrial Arts with minimum GPA of 3.0 and permission of instructor, Department Head and School Dean.

LAW ENFORCEMENT (LE)

Introduction to Law Enforcement (F,S)

43.0107-100 3 hrs. cr.
Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

Police Organization and Administration (F)

43.0107-110 2 hrs. cr.
Management operations, communications, budgeting, recruiting, training and public relations as they pertain to the local and state law enforcement agencies.

Interview and Report Writing (S)

43.0107-150 2 hrs. cr.
The techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

COURSES/MANUFACTURING TECH

Basic Police Academy (F, S, Summer)

43.0107-180 6 hrs. cr.
The basic training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports, defensive tactics, investigation, and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110, and LE 150, or permission. (Additional lab fee for course).

Criminal Investigation I (F)

43.0107-200 3 hrs. cr.
Fundamentals of criminal investigation techniques including crime scene procedures, burglary, and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

Criminal Procedures (F)

43.0107-210 3 hrs. cr.
Criminal law procedures from arrest through trial, search and seizure, laws of evidence, review of pertinent supreme court decisions and related topics. The order of criminal trial.

Criminal Law (S)

43.0107-250 3 hrs. cr.
Criminal law purposes and functions; laws concerning arrest, search and seizure. Rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

Police Supervision and Management

43.0107-290 3 hrs. cr.
Principles of personnel management as applied to law enforcement agencies; evaluation, promotion, discipline, training, employee welfare, and problem-solving leadership.

Special Topics in Law Enforcement (Demand)

43.0107-298 1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites will be stipulated in the course syllabus.

COMPUTER ASSISTED MANUFACTURING TECHNOLOGY (CAM)

Intro to Machine Tool Processes (F,S)

48.0503-100 4 hrs. cr.
The theory and safe operation of basic machine tools. The fundamental practices include; safety, basic mathematics, blue print reading, benchwork, precision measurement,

metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. Two hrs. lecture; 6 hrs. lab per week.

Intermediate Machine Tool Processes (F,S)

48.0503-105 4 hrs. cr.
An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAM 100, CADD 110, Math 130 or consent of the instructor.

Inspection and Gaging (S)

48.0503-160 2 hrs. cr.
Inspection, gaging & precision measurement procedures utilizing mechanical electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer Assisted process control methods are introduced and applied to specific inspection procedures. One 1-hour lecture; one 2-hour lab per week. Prerequisites: CAM 100, CADD 110, Math 130 and Math 112 or consent of instructor.

Advanced Machine Tool Processes (F,S)

48.0503-200 4 hrs. cr.
An introduction to the design and fabrication of custom machine tools, molds, jigs, fixtures and dies. Subjects covered will include: proto-type design, die construction, electrical discharge machining, gears and gearing, special cutting tools and precision tool-making. Commercial computer software will be used to introduce and apply the principles of tool design and selection in modern manufacturing. Two hrs. lecture; 6 hrs. lab per week. Prerequisites: CAM 105, CADD 130, Math 130 and Math 112 or consent of the instructor.

Computer Numerical Control (F,S)

48.0503-250 4 hrs. cr.
Introduction to the history and fundamentals of computer numerical control machining. Topics covered will include absolute and incremented coordinate systems, tool geometry and offsets, feeds and speeds with related blueprint reading and mathematics as applied to computer numerical control programming. Students will write and edit programs on microcomputers and machine parts on computer controlled machines. Two hrs. lecture; 4 hrs. lab per week. Prerequisites: CAM 200, Math 130 and Math 112 or consent of instructor.

Fundamentals of Metallurgy (F)

48.0503-260 3 hrs. cr.
Introduction to physical metallurgy. Theory and application of principles for identifying, producing, conditioning and testing of ferrous and non-

ferrous metals. Topics include heat treating, machining, welding, casting and forming of metals. Laboratory activities involve manual and computer assisted testing and metallographic examination. One 1-hr. lecture; two 2-hr. labs per week.

Production Planning and Control (S)

48.0503-290 3 hrs. cr.
A survey of the essential steps for effective planning and control of manufacturing production. Emphasis on process identification, process sheets and scheduling with related costs. Activities that influence the production planning and control function will be surveyed including quality control, safety, plant layout, inventory control, material handling and justification of robots and automated equipment. Commercial computer software will be used throughout the course to strengthen and expand the principles taught. Three hrs. lecture per week. Prerequisite: CAM 200, Comp 115 or consent of the instructor.

Selected Topics in Manufacturing Tech (Demand)

48.0503-298 1-8 hrs. cr.
Special topics in new or emerging manufacturing technology that are not normally included in another course.

Internship in Manufacturing Tech (Demand)

48.0503-490 1-8 hrs. cr.
A structured work experience in Manufacturing Technology at an institution, facility or industry not directly related to the Missouri Southern campus. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. The on-site professional will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hours of CAM courses and permission of a committee.

Seminar in Manufacturing Technology (Demand)

48.0503-498 1-3 hrs. cr.
Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an Associate Degree in Manufacturing Technology.

Independent Study in Manufacturing Tech (Demand)

48.0503-499 1-3 hrs. cr.
Individually directed reading, research, and report preparation in selected areas of contemporary Manufacturing Technology, for

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advanced majors. Scope, depth and area of concentration and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of the instructor, Department Head and School Dean.

MEDICAL TECHNOLOGY (MT)

Introduction to Medical Technology (F,S)

18.0901-200 1 hr. cr.
A practical experience designed to introduce prospective Medical Technology students to the following areas of a hospital laboratory: Hematology, Coagulation, Urinalysis, Blood Bank, Microbiology, Serology, Radioimmunoassay, and Chemistry. Prerequisite: Chem 102 and permission of Med Tech Advisor.

Clinical Chemistry (F)

18.0901-401 10 hrs. cr.
Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques including automation and special procedures. Five hrs. lecture and 20 hrs. clinic/lab per week.

Clinical Microscopy (S)

18.0901-402 1 hr. cr.
Principles and techniques of the physical, chemical and microscopic examination of urine and other excreta as related to disease processes. One hr. lecture, clinic by arrangement.

Hematology (F)

18.0901-403 6 hrs. cr.
The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

Serology-Immunology (S)

18.0901-404 3 hrs. cr.
The science of immunity including antibody development, principles of antigen-antibody interactions, and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

Clinical Microbiology (S)

18.0901-405 7 hrs. cr.
Sterile technique, methods of handling and inoculating specimens containing pathogenic microorganisms, isolation and identification of pathogenic microorganisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology, and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

Blood Bank-Immunohematology (S)

18.0901-406 3 hrs. cr.
Blood group systems and the immune response, methods of crossmatching, antibody screening, and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

Special Topics in Medical Technology (S)

18.0901-407 2 hrs. cr.
Lecture and/or clinical practice in the areas of in-service Education, Management and Supervision. Research and Development, Principles and Techniques of the Instructional Process. Lecture and labs to be arranged.

MILITARY SCIENCE (MS)

Adventure Training (F)

28.0301-111 2 hrs. cr.
Basic rifle marksmanship, camping, mountaineering, rappelling, map reading, and survival. A overview of Army ROTC and job opportunities throughout the Army. One hour lecture and 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Survival Skills (S)

28.0301-112 2 hrs. cr.
Basic survival skills in various geographic regions and climates, as well as basic first aid in survival situations. An overview of the branches of the Army, as well as the Army Reserve and Army National Guard. One hr. lecture and 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Contemporary Military Subjects (F)

28.0301-121 2 hrs. cr.
An overview of areas of military interest in today's world and how these current events affect each of us. Basic military management techniques and leadership styles. A review of ROTC programs and their application to career goals both military and civilian. Two hrs. lecture, 1 hr. lab per week. Participants incur no military obligation by taking this course.

Individual Military Skills (S)

28.0301-122 2 hrs. cr.
Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Customs and traditions, land navigation, field training exercises, physical training programs and additional leadership experiences. One hr. lecture and 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Basic ROTC Summer Practicum (Summer)

28.0301-190 2 or 4 hrs. cr.
Designed for freshmen and sophomores desiring to enroll in Advanced ROTC. A varied number of credits are available depending on the needs of the students. The course will cover mountaineering, map reading, land navigation, survival, physical conditioning, drill and ceremonies, organization of the Army, marksmanship and other basic military skills. Participants incur no military obligation by taking this course.

Seminar in Military Science (ROTC Basic Camp) (Summer)

28.0301-298 2-8 hrs. cr.
An in-depth study of the Military Science courses normally taught on college campus during the freshman and sophomore years, including: tactics, marksmanship, communication, physical conditioning, and practical leadership experience. The six-week course is taught at Fort Knox, KY, with transportation and room and board plus a salary provided by the Army.

Leadership and Management I (F)

28.0301-301 3 hrs. cr.
Leadership, its principles, responsibilities and techniques. Functions of the leader, leadership including management of military assets; introduction to leadership theory and practice and military laws. Included is a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Fundamentals and Dynamics of Military Team I (S)

28.0301-302 3 hrs. cr.
Branches of the Army, small unit tactics, communications, leadership theory and practice. Included is a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

United States Military Experience 1775 to Present (S)

(See Hist 400)
28.0301-400 3 hrs. cr.
A broad view of military history as concerned with the role of force on land or sea or air against foreign governments and domestic dissidents. Emphasizes military policy, organization, and technology, relating them to political, social, and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs. lecture per week.

Fundamentals and Dynamics of Military Team II (F)

28.0301-411 3 hrs. cr.
Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics; leadership theory and practice. Also included is a program of directed readings in Military History, a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Leadership and Management II (S)

28.0301-412 3 hrs. cr.
Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management; world change and military implications; leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

NURSING-ASSOCIATE DEGREE (NUR)

Introduction to Nursing Process (F)

18.1101-100 6 hrs. cr.
An introduction to nursing, roles of the Associate Degree Nurse, and application of the nursing process with emphasis on promotion of health. The course is organized around mobility, body processes, body defenses, safety and security. Emphasis on the uniqueness of each individual through the study of bio- psychosocial development of the individual and family, cultural diversity, and the communication process. An introduction to nursing history, ethical and legal aspects, pharmacology, and nutrition. Students are expected to develop proficiency in the basic nursing skills.

Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPN's will be exempt from part of the clinical laboratory experience. Clinical experience sufficient to develop skill in the use of the nursing process will be assigned. Four hrs. of lecture, 8 hrs. of classroom and clinical laboratory including pre- and post-conferences.

Nursing Process with the Developing Family (S)

18.1101-110 9 hrs. cr.
Individual and family development from conception through adolescence. Following the initial emphasis on health, the nursing process is applied to complications of child-bearing and common illnesses of childhood. The course organization is similar to Nur 100. The student

is expected to organize care of selected patients. Communication skills are applied in assisting and teaching the family. Related drug, nutritional and rehabilitation interventions are included. Historical highlights, legislation, trends, and cultural implications are presented. Five hrs. lecture, 12 hrs. clinical laboratory including pre- and post-conferences. Prerequisite: Nur 100 with minimum grade of C.

Nursing Process in Psychiatric-Mental Health Nursing (Summer)

18.1101-130 4 hrs. cr.
The promotion of mental health as well as application of the nursing process in the care of the client in psychiatric-mental health settings. Course content places increased emphasis on communication. Use of therapeutic communication and the nurse- patient relationship are emphasized. Theories of personality development, developmental crisis, and crisis intervention methods for the individual and family are introduced. Pharmacology, legal and ethical issues and related diet therapy are integrated. Four hrs. lecture, 12 hrs. clinical laboratory, including pre- and post-conference. Prerequisite: Nur 110 with minimum grade of C. Summer course only.

Nursing Process with Adults I (F)

18.1101-220 9 hrs. cr.
Applies the nursing process to the adult client and family who need assistance to achieve high-level wellness. Developmental aspects of the middle years are presented. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing roles of the A.D. nurse. Communication and health teaching with the adult are emphasized. Theory content is presented as: interference with body processes; altered body defenses; altered mobility; and jeopardized safety. Legal, cultural, pharmacological, nutritional, and rehabilitational aspects are an integral part of the course. Five hrs. lecture, 12 hrs. clinical laboratory including pre- and post-conferences. Prerequisite: Nur 130 with minimum grade of C.

Nursing Process with Adults II (S)

18.1101-240 9 hrs. cr.
A continuation of Nursing 220 with application of the nursing process in the care of patients in more acute care areas. The student assumes a more active role as a member of the health team by increasing utilization of organizational and managerial skills. Developmental aspects of aging are presented. The content is organized as identified in Nursing 220. Four hrs. lecture, 15 hrs. clinical laboratory including pre- and post-conferences. Prerequisite: Nur 220 with minimum grade of C.

Selected Topics in Nursing (Demand)

18.1101-298 1-8 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites to be determined by the Department of Nursing and stipulated in a syllabus of the course.

NURSING-BACCALAUREATE DEGREE (NUR)

Process of Professional Nursing (F)

18.1120-300 3 hrs. cr.
Study will focus on the knowledge and skills needed to assume the role of the professional nurse. Core content includes theory of the nursing process, systems theory, adaptation, legal and ethical issues, and professional behavior. The course is structured to provide an opportunity for the socialization of the learner in transition from the secondary level to the primary level of nursing practice. Prerequisite: RN status and approval of the department. Co-requisites: Nur 310 and Bio 308. Three hrs. lecture.

Nursing Management and Group Dynamics (F)

18.1120-310 3 hrs. cr.
Relate organizational theory to the delivery of health care services with emphasis on management principles and processes. Communication skills, group dynamics, and leadership abilities will be analyzed. The learner will integrate didactic content with group experiences to further develop communication, problem- solving, and leadership skills. Prerequisite: RN status and approval of the department. Co-requisites: Nur 300 and Bio 308. Three hrs. lecture.

Advanced Health Assessment (S)

18.1120-330 6 hrs. cr.
Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to allow the learner to refine assessment skills. The learner will be guided in using problem solving skills in the care of patients with a complexity of health problems. Prerequisites: Nur 300, 310, Bio 308. Three hrs. lecture; 9 hours clinical lab including pre- and post-conferences.

Nursing Process in Community Health (F)

18.1120-400 6 hrs. cr.
Concepts and methods for assessment of community strengths and health needs will be analyzed. An interactive process with community residents and health care providers is utilized. Recommendations are established for improved community health. Course requirements include classroom seminar and community clinical laboratory experiences. Prerequisites: Nur 300, 310 and 330. Three hrs. lecture, 9 hrs. clinical laboratory, including conferences.

Gerontological Nursing (S)

18.1120-410 3 hrs. cr.
Focuses on the health care needs of the older adult. The nursing process will be utilized as a framework of study for preparation of the professional nurse to be effective in the care of the elderly. Prerequisites: Nursing 330 and Bio 308 or permission of the instructor. Three hrs. lecture.

Introduction to Nursing Research (S)

18.1120-420 6 hrs. cr.
Provides guided investigation of research design, methodology, sampling, conclusions and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing Research builds upon the knowledge and skills acquired in the statistics course. A research proposal for a selected problem is developed by the learner and implemented in the clinical area. Prerequisites: Statistics; Nursing 300, 330, 400. Six credit hrs. three hrs. lecture, nine hrs. clinical laboratory including conferences.

Seminar in Nursing (Demand)

18.1120-498 1-3 hrs. cr.
A special topic or topics not normally included in another course. Prerequisites: upper division standing, additional to be determined by the Department of Nursing and stipulated in a syllabus of the course.

Independent Study (Demand)

18.1120-499 1-3 hrs. cr.
An independent study course structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field. Registration in the course must be approved by adviser, Department Head and School Dean. Minimum of 3.0 GPA required.

PARAMEDIC PROGRAM (EMT-P)

EMT-P (Paramedic) (Demand)

17.9999-295 12 hrs. cr.
Classroom instruction supplemented by clinical observation and experience. The classroom phase consists of three 3 hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent, and possess a current state ambulance license. A minimum of one year's experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book

and equipment fees are assessed for this course. (For additional information, contact the Continuing Education Office.)

RADIOLOGIC TECHNOLOGY (Rad)

Introduction to Radiology

17.0209-101 3 hrs. cr.
An introduction to the radiology department, including basic procedures and equipment. Includes organization, function, and supervision of a Radiology Department with a history of X-ray, ethical principles, and legal aspect of technology and elementary radiation protection. Two hrs. lecture and two hrs. lab per week. Prerequisite or Co-requisite Bio 306.

Medical Terminology

17.0209-111 3 hrs. cr.
Provides a background in the language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Every attempt is made to relate medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Patient Care and Special Procedures in Radiology

17.0209-121 3 hrs. cr.
Routine and special care of the patient. Includes sterile techniques, preparation of contrast media, special attention is given to the visualization of the digestive, urinary and reproductive organs. Three hrs. lecture per week.

Principles of Radiographic Exposure

17.0209-132 3 hrs. cr.
The fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and dark room chemistry and techniques. Three hrs. lecture per week.

Radiographic Positioning I

17.0209-142 3 hrs. cr.
Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.

Film Critique

17.0209-160 2 hrs. cr.
Develops a student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Course also includes an introduction to quality assurance. One hr. lecture and 2 hrs. laboratory per week.

Radiologic Physics

17.0209-170 3 hrs. cr.
The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry, and basic equipment maintenance. Three hrs. lecture per week.

Practicum in Radiology I

17.0209-180 4 hrs. cr.
Intensified clinical training in the areas of urology, surgery, special procedure, fluoroscopy and general radiography. Course meets for 12 weeks summer session. 35 hrs. clinic per week.

Radiographic Positioning II

17.0209-241 3 hrs. cr.
An in-depth study of routine and special views of the skull and facial bones. Film special views of the skull and facial bones. Film critique, radiation protection, and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, and 20 hrs. clinic per week.

Radiographic Positioning III

17.0209-252 3 hrs. cr.
Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture and 20 hrs. clinic per week.

Practicum in Radiology II

17.0209-282 2 hrs. cr.
Advanced clinical training. Includes an introduction to the responsibility of patient flow control. 20 hrs. clinic per week.

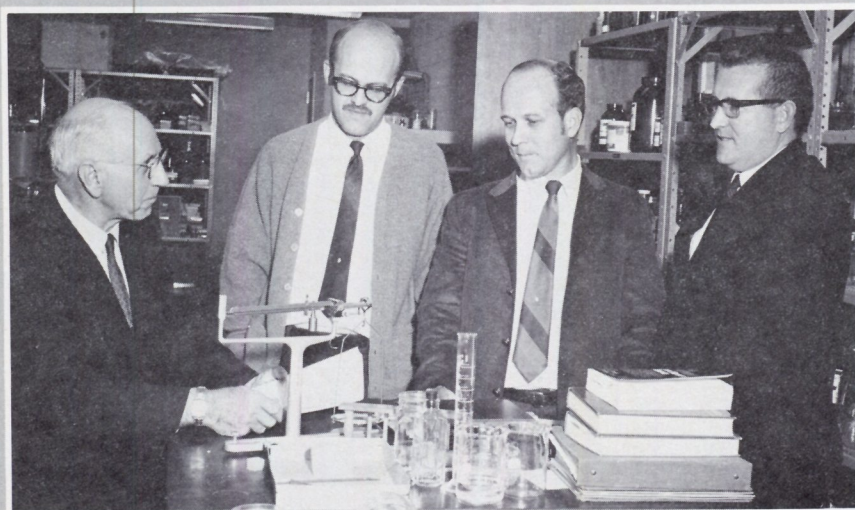
Practicum in Radiology III

17.0209-290 4 hrs. cr.
Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks summer session. 35 hrs. clinic per week.

Advanced Radiology

17.0209-299 3 hrs. cr.
A comprehensive review of the field of radiology including innovations, trends, and anticipated advancements in the field. Three hrs. lecture per week.

ADMINISTRATION & FACULTY



Biology faculty, 1971



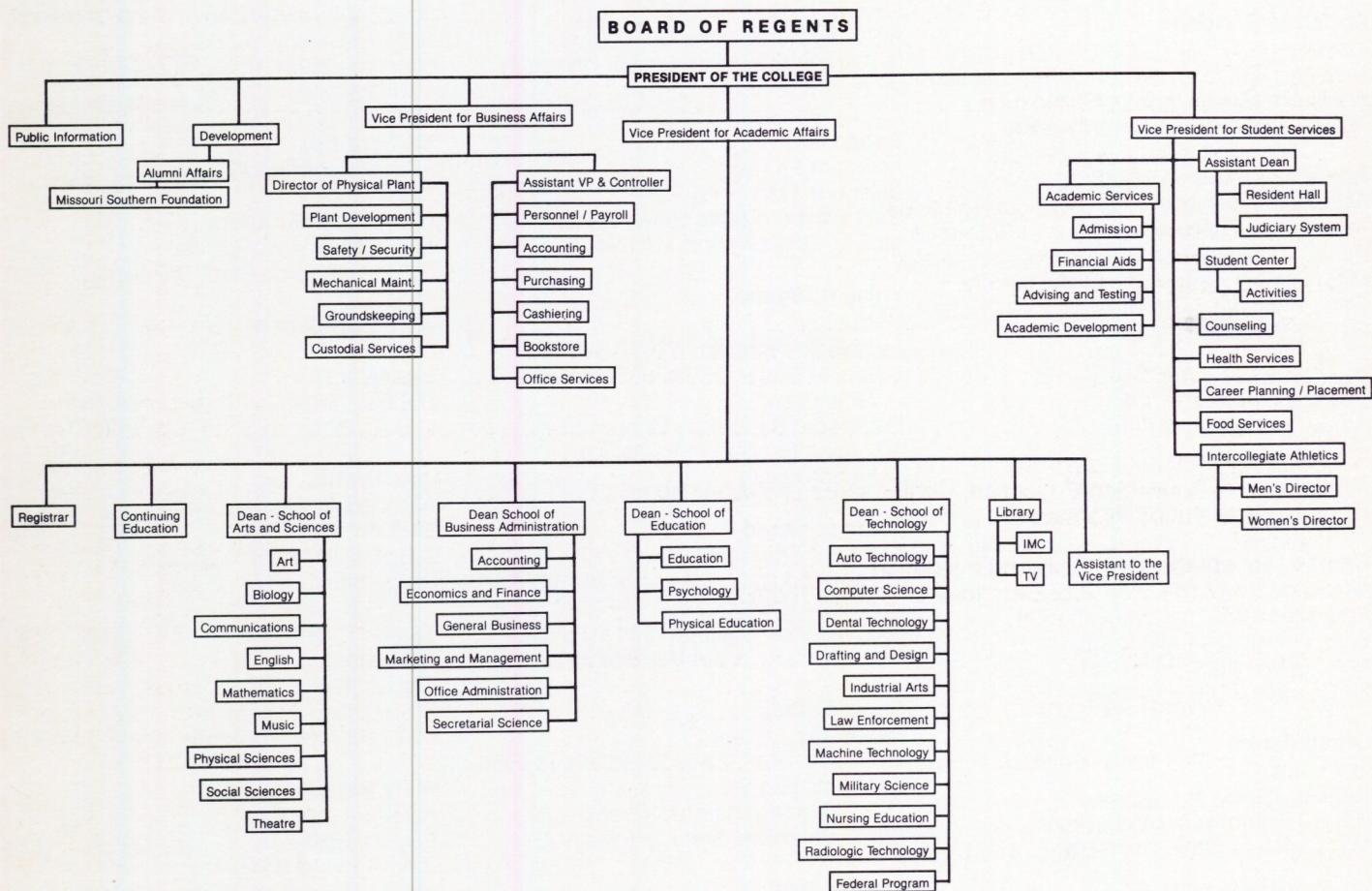
ADMINISTRATION & FACULTY

ADMINISTRATIVE STAFF

President	Julio S. Leon
Vice President for Academic Affairs	Floyd E. Belk
Vice President for Business Affairs	John W. Tiede
Vice President for Student Services	Glenn D. Dolence
Dean, School of Arts and Sciences	Ray A. Malzahn
Dean, School of Business Administration	Robert C. Brown
Dean, School of Education and Psychology	Edward P. Merryman
Dean, School of Technology	James K. Maupin
Assistant Dean, School of Technology	Robert H. Nickolaisen
Head, Department of Biology	Vonnie Prentice
Head, Department of Communications	Richard W. Massa
Head, Department of Education	James V. Sandrin
Head, Department of English	Joseph P. Lambert
Head, Department of Fine Arts	Pete Havely
Head, Department of Mathematics	J. Larry Martin
Head, Department of Physical Sciences	Vernon D. Baiafonte
Head, Department of Social Sciences	Judith L. Conboy
Head, Department of Physical Education	Max D. Oldham
Head, Department of Psychology	James T. Volskay
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Archivist	Charles E. Nodler
Circulation Librarian	E. Gaye Pate
Periodical Librarian	Mary Lou Dove
Reference Librarian	David A. Reiman
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Director of Women's Athletics	Sallie L. Beard
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Learning Center Coordinator	Myrna L. Dolence
Director of Student Financial Aid	James E. Gilbert
Bookstore Manager	Charles D. Moss
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Director of Office Services	Ron Foster
Acting Director of Safety & Security	Jesse Forkner
Personnel Records	Douglas Coen
Purchasing Agent	David Throop
Director of Physical Plant	Howard Dugan

ORGANIZATIONAL CHART

COLLEGE ORGANIZATIONAL CHART



FACULTY

FACULTY

(Date indicates first year of service.)

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English 1981
A.B., Davidson College
M.A., College of William and Mary
Ph.D., Duke University

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M.S., Pittsburg State University
Ed.S., Pittsburg State University
Ed.D., Oklahoma State University

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B.A., Western Washington State College
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Graduate Burge School of Radiologic
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M.M.E., Southern Methodist University
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B.S.N., University of Tennessee
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A.B., Pittsburg State University
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B.S.B.A., University of Arkansas
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A.B., Duke University
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B.S., Dana College
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B.S.E., Northeast Missouri State University
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Pupil of Rosina Lhevinne

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Music, Fine Arts Dept. Head, Director of Band 1979
B.M.E., Central Oklahoma State University
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Computer Science 1985
B.S., Missouri Southern State College
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Ph.D., Rutgers State University

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M.S., Kansas State University

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M.A., Mississippi College
Ph.D., Auburn University

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A.B., Universidad Tecnica (Chile)
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Women's Volleyball and Softball Coach
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B.S.E., Northwest Missouri State
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Graduate Study, Southern Methodist
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Graduate Study, University of Kansas,
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Graduate Study, University of Minnesota,
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Computer Sciences 1981
B.S., Missouri Southern State College
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M.S.E., Arkansas State University

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Computer Assisted Drafting 1978
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FACULTY

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Harry E. Preble

Professor
English 1968
A.B., University of Illinois
M.A., University of Illinois
Ph.D., University of Illinois

Vonnie R. Prentice

Professor
Biology-Head, Biology Department 1972
B.S.E. Northeastern Oklahoma State
College
M.S., University of Arkansas
Ph.D., University of Arkansas

G. Erin Ray

Assistant Professor
Education 1979
A.B., University of Northern Colorado
M.S., Southwest Missouri State University

David Reiman

Instructor
Library 1985
B.A., Taylor University
M.A., Ball State University
M.L.S. Indiana University

Gail K. Renner

Associate Professor
History 1965
B.S., Southwest Missouri State University
M.A., University of Missouri, Columbia
M.A., University of Missouri, Kansas City
Ph.D., University of Missouri, Columbia

Wendell C. Richards

Assistant Professor
Law Enforcement 1978
B.S., Central Missouri State University
M.S., Central Missouri State University

Mary G. Ross

Assistant Professor
Nursing 1979
B.S.N., Oklahoma Baptist University
M.S.N., Duke University

Rene Rubertus

Instructor
Dental Hygiene 1985
B.S., University of Missouri

Lynne Rusley

Assistant Professor
Business 1984
B.A., University of Northern Iowa
M.A., University of Northern Iowa

Annetta E. St. Clair

Assistant Professor
Political Science 1964
A.B., Pittsburg State University
M.A., Pittsburg State University
M.S., Pittsburg State University

Arthur M. Saltzman

Associate Professor
English 1981
A.B., University of Illinois
A.M., University of Illinois
Ph.D., University of Illinois

James V. Sandrin

Professor
Education, Dept. Head 1969
B.S., Southern Illinois University
M.S., Southern Illinois University
Ph.D., Southern Illinois University

John Scorse

Instructor
Manufacturing Technology 1985
B.S.E., Missouri Southern State College

Sandra Scorse

Instructor
Dental Science, Director 1985
D.D.S. University of Missouri

Donald L. Seneker

Assistant Professor
Director, Police Academy, Law
Enforcement and Criminal Justice 1971
B.S., Central Missouri State University
M.S., Central Missouri State University

Joseph Shields

Professor
Mathematics 1979
B.S., St. Louis University
M.A., University of Missouri
Ph.D., Michigan State University

Sidney Shouse

Instructor, Controller
Assistant to Vice President for Business
Affairs 1973
B.S., Missouri Southern State College
M.B.A., Drury College

Dale W. Simpson

Assistant Professor
English 1979
A.B., Harding College
M.A., North Texas State University
Ph.D., North Texas State University

Marion Sloan

Associate Professor
Physics 1967
A.B., Pittsburg State University
M.S., Pittsburg State University

Robert E. Smith

Professor
History 1972
B.S., Northwest Missouri State University
M.A., Oklahoma State University
Ph.D., Oklahoma State University

Jack G. Spurlin

Assistant Professor
Law Enforcement 1975
B.S., Northeast Missouri State University
M.S., Central Missouri State University

Sam J. Starkey

Associate Professor
Psychology 1966
B.S., University of Arkansas
M.S., University of Arkansas
Ed.D., University of Arkansas

Chad D. Stebbins

Instructor
Communications 1984
B.S., Missouri Southern State College
M.A., Central Missouri State University

Wayne E. Stebbins

Assistant Professor
Biology 1969
B.S., Kansas State Teachers College,
Emporia
M.S., Kansas State Teachers College,
Emporia

Bob F. Steere

Professor
Education 1969
B.S., Southwestern State University
M.S., Northern Arizona University
Ed.D., Utah State University

Arthur L. Strobel

Assistant Professor
Physics 1963
B.S., Southeast Missouri State University
M.S., University of Arkansas

Dennis K. Sutton

Assistant Professor
Industrial Arts 1980
B.S., Pittsburg State University
M.S., Pittsburg State University

Clive Swansborne

Assistant Professor
Music 1986
B.M., Royal College of Music-England
M.M.A., Yale University
D.M.A., Yale University

David D. Tate

Associate Professor
Sociology 1974
B.S.E., University of Arkansas
M.A., University of Houston
Ph.D., Oklahoma State University

Robert R. Terry

Assistant Professor
Law Enforcement 1974
B.S., Northeast Missouri State University

Paul Teverow

Assistant Professor
History 1982
B.A., Case Western Reserve University
M.A., Ohio State University
Ph.D., Ohio State University

Charles C. Thelen

Associate Professor
Music 1973
A.B., Occidental College
M.A., University of Northern Colorado
Ed.D., University of Northern Colorado

John W. Tiede

Professor
Vice President for Business Affairs 1968
B.S., Southwest Missouri State University
M.B.A., University of Arkansas
J.D., University of Missouri

David L. Tillman

Assistant Professor
Biology 1975
B.S., Brigham Young University
M.S., Brigham Young University

Hartford Tunnell

Instructor
Computer Science 1985
B.A., Texas A & M University
M.E., Southwest Texas State University
C.D.P.

Warren F. Turner

Assistant Professor
Physical Education, Head Baseball
Coach, Assistant Football Coach 1976
B.S.E., Pittsburg State University
M.S., Pittsburg State University

Joseph D. Vermillion

Assistant Professor
Counseling and Testing 1980
B.S., Missouri Southern State College
M.A., Pittsburg State University

James T. Volskay

Professor
Psychology, Dept. Head 1969
B.S.E., Southwest Missouri State
University
M.E., University of Missouri
Ph.D., University of Missouri

Doris A. Walters

Assistant Professor
English 1979
B.S.E., Pittsburg State University
M.A., Pittsburg State University
Ph.D., University of Arkansas

Phillip R. Whittle

Professor
Chemistry, Director of Crime Laboratory
1970
B.S., University of Kentucky
Ph.D., Iowa State University

Robert C. Wiley

Professor
Education 1969
B.S., Trinity University
M.Ed., Trinity University
Ed.D., Oklahoma State University

Tillman D. Williams

Associate Professor
Physical Education, Head Basketball
Coach 1977
B.S., Southwest Missouri State University
M.S., Indiana University
Ph.D., Indiana University

Jimmie L. Williams

Assistant Professor
Law Enforcement 1976
B.S., Missouri Southern State College
M.S., Central Missouri State University

Valerie Williams

Instructor
Student Services 1985
B.A., West Virginia University
M.E., University of South Carolina

R. Jerry Williams

Assistant Professor
Director Of Continuing Education 1986
B.S.E., University of Nebraska
M.A., Bowling Green State University
Ed.D., Oklahoma State University

Marcella Winn

Instructor
Mathematics 1986
B.S.E., Arkansas State University
M.S.E., Arkansas State University

Edward Wong-Ligda

Instructor
Art 1985
M.F.A., University of Tulsa

Gabriela F. Wright

Instructor
Counselor 1984
B.S., University of Florida
M.S., University of Florida
Ed.D., University of Florida

Edward W. Wuch

Associate Professor
Education 1969
B.S., University of Missouri
M.Ed., University of Missouri
Ed.D., Candidate, Arizona State University

Michael L. Yates

Assistant Professor
Political Science 1980
A.B., Southern Illinois University
M.E., Southern Illinois University
J.D., University of Missouri

FACULTY

Karolyn Yocum

Assistant Professor
Communications 1986
B.S., Kansas State College
M.S., Kansas State College
Ed.S., Central Missouri State University
Ph.D., Ohio State University

Donald R. Youst

Assistant Professor
Political Science 1971
A.B., Kansas State Teachers College,
Emporia
M.S., Kansas State Teachers College,
Emporia
Ph.D., University of Nebraska

AFFILIATED FACULTY**David T. Roberts**

Major
R.O.T.C.
B.A., University of Missouri
at Kansas City

Robert M. Hellams

Captain
R.O.T.C.
B.A., The Citadel, Charleston, SC

David E. Dobbs

Master Sergeant
R.O.T.C.

James O. Whitworth

Sergeant First Class
R.O.T.C.

Dorothy A. Stone

Professor
Business Administration 1939
B.S., University of Missouri
M.A., University of Missouri

**PART-TIME AND
TEMPORARY FACULTY****Michael Bauer**

Part-time Instructor
English
B.A., Missouri Southern State College
M.A., University of Chicago

Fred W. Bertch

Temporary Instructor
Mathematics
B.S., Brigham Young University
M.S.T., University of Arizona

James Brown

Part-time Instructor
Business Administration
B.S.B.A., Missouri Southern State College
C.P.A.

Deborah J. Cable

Lab Instructor
Computer Science
B.S.B.A., Missouri Southern State College

Mary DeArmond

Part-time Instructor
English
B.A., Missouri Southern State College
M.A., Pittsburg State University

William N. McDonald

Part-time Instructor
Business Administration
B.S., University of Missouri

Judith Noble-Fowler

Part-time Instructor
Art
B.S.E., Missouri Southern State College
B.F.A., Southwest Missouri State
University
M.F.A., University of Utah

Ellen E. Vilas

Temporary Instructor
Mathematics
B.A., Midland College
M.S., University of Iowa

Carolyn J. Wolfe

Temporary Instructor
Mathematics
B.S., Pittsburg State University
M.S., Pittsburg State University

EMERITUS FACULTY**Enid Blevins**

Assistant Professor
English 1966
B.S., Southwest Missouri State University
M.A., Pittsburg State University

Fred Cinotto

Professor
Administrative Assistant 1965
B.S., Pittsburg State University
M.S., Pittsburg State University

Cleetis Headlee

Professor
English 1946
B.S., University of Missouri
M.S., University of Missouri

Julie S. Hughes

Assistant Professor
History 1963
B.S., Pittsburg State University
M.S., Pittsburg State University

Martha Ann McCormick

Professor
Mathematics 1937
M.A., University of Chicago
Ph.B., University of Chicago

Grace C. Mitchell

Assistant Professor
English 1958
A.B., Greensboro College
M.A., Pennsylvania State University

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Honors Program Application

Name: _____
Last First Initial

Social Security No: _____ Telephone No: _____
(Area Code)

Address: _____
Street Town State Zip

ACT Composite Score: _____

Please list extracurricular activities below.

Have you been admitted to MSSC? Yes ☐ No ☐

Have you applied for financial aid? Yes ☐ No ☐

High School: _____ GPA: _____

Year Graduated: _____ Class Standing: _____ / _____

Incoming Freshman

Intended Major: _____

Already enrolled or transfer student

College or University attended: _____

Hours Completed: _____ GPA: _____

Quarter System _____

Semester System _____

Major: _____

Signature _____

Date _____

For office use only:

Transcript _____

ACT Scores _____

Letters of recommendation:

High school principal _____

1

High school teacher _____

2

Essay _____

Interview _____

Action taken: _____

Incoming Freshman ☐

Already Enrolled at MSSC ☐

Transfer Student ☐

INSTRUCTIONS

REQUIREMENTS

For entering freshmen, an ACT composite score of 27 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but less than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

APPLICATION PROCEDURES

Incoming Freshman

- *A completed APPLICATION FORM must be filed.
- *Please request that an official high school TRANSCRIPT be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately, or on your transcript.
- *Arrange to have two LETTERS OF RECOMMENDATION sent directly to the Honors Program, one from your high school principal and one from one of your high school teachers. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

Already Enrolled or Transfer Student

- *A completed APPLICATION FORM must be filed.
- *Please request that an official college TRANSCRIPT be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately or on your transcript.
- *Arrange to have two LETTERS OF RECOMMENDATION from your college instructors sent directly to the Honors Program. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, all application materials should be received by April 15; for the spring semester all materials should be received by November 15.

Send all application materials to:

Honors Program Director
Missouri Southern State College
Joplin, MO 64801-1595
Telephone: Toll free in Missouri 1-800-492-4811
Telephone: In Joplin 1-417-624-8100

Missouri Southern State College is an equal opportunity and affirmative action institution.
The college reserves the right to amend regulations when necessary.

GPA _____ Need _____ Other Scholarship _____ Code _____ Activities _____

Office Use Only

Scholarship Application

Please complete application on **both** sides

Joplin, MO 64801-1595
417-625-9392

Note: By filing this form along with the Missouri Southern State College Financial Aid Application, you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

- How to apply:**
1. Must apply or have applied for admission.
 2. Complete application and a Missouri Southern State College Financial Aid Application.
 3. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Jr. College Transfer Scholarships. Please contact the Financial Aid Office at Missouri Southern State College.)
 4. **Type** or **print** application.

Name _____
First Middle or Initial Last Maiden

Social Security Number _____ Phone _____

Address _____
Street City State Zip County

Male _____ Female _____ Married _____ Single _____

Date of High School Graduation _____

High School Attended _____ City/State _____

Freshman _____ Sophomore _____ Junior _____ Senior _____ *Transfer _____
(1-29 hrs.) (30-59 hrs.) (60-89 hrs.) (90 plus hrs.)

*College last attended _____

Educational Major _____ Minor _____

Circle criteria which apply to you or any of your immediate relatives:

1. Career choice is mental health
2. Society of Manufacturing Engineers (SME)
3. Student Nurses Association (SNA)
4. Office or member of Society of National Educators Association (SNEA)
5. Interested in medical profession
6. Speech and debate
7. Work with handicapped children
8. Freeman Hospital employee
9. Piano major
10. Rainbow member
11. Father or Grandfather Lions Club Member

Are you receiving any of the following scholarships?

Freshman or New College Transfer Student Only—

Application will not be processed unless this section is completed and signed by your HS counselor/principal or College Registrar:

GPA on a 4.00 grade point system

(HS) 7th semester GPA: _____

(College) last semester completed GPA _____

Signature _____
Title

Date _____

Please do not send transcript to Financial Aid Office

President's _____ Regents' _____ Performing Aids _____ Athletic _____ Honors _____

Other (List) _____

Are you currently employed? _____ If yes, list place of employment _____

(If dependent) Father's employer _____

(If dependent) Mother's employer _____

(If married) Spouse's employer _____

Note: Please complete the following:

Scholastic honors: _____

Activities: _____

Organizations: _____

Volunteer work: _____

All qualified applicants will receive consideration without regard to non-merit factors: race, sex, creed, or handicap.

Statement of Certification: If I am awarded a scholarship, I hereby give my consent for Missouri Southern State College to permit the donor of the scholarship to review my scholarship record files.

I further understand that application to the scholarship program **must** be turned in prior to **April 1**.

- Note:**
1. Students may not receive more than one scholarship issued by the College. This includes the Honors, President's, Regents', Jr. College, Deans', and Patron's Scholarship Program. Outstanding students who receive more than one scholarship must choose which award they will accept unless special approval is made by the Director of Student Financial Aid.
 2. Scholarship recipients may receive athletic and performing awards which must be coordinated with the scholarship; not to exceed the student's college costs.
 3. All scholarships are issued for one year only.
 4. All scholarships are subject to change without notice and are subject to review by the scholarship committee upon receipt of funds and authorization by the Board of Regents.

Date signed _____ Signature _____

Application for Admission

Missouri Southern State College

\$10.00 application fee is required for first time students only.

1. Name (Print) _____
(Last) (First) (Middle) (Maiden or Former Names)

2. Social Security Number (Required) _____

3. Sex: (Circle) Male Female

Are you a veteran? Yes No

4. Date of Birth: Month: _____ Day: _____ Year: _____

5. Residency Status: Permanent mailing address

Address _____ City _____ County _____

State _____ Zip Code _____ Telephone No. _____

How long have you resided at the above address? _____

6. Are you a U.S. Citizen? Yes No

If no, what visa do you hold? _____

If no, country of birth _____ Major _____

7. a. Student Status (Circle)

First Time Student (At college level)
 Transfer Student (Attended any other college)
 Former Student of MSSC or Joplin JUCO
 Post Graduate

Credit in Escrow (permission of High School Principal must be attached)

Transient (Summer Only)

7. b. Credit hours completed

8. Admission Status (Circle) A. Regular B. Other: *

0-29 (Fresh.) 30-59 (Soph.) 60-89 (Jr.) 90 or more (Sr.)

1. Temporary 5. Continuing Ed
 2. Special 6. Workshop
 3. Transient 7. Audit
 4. Credit in Escrow 8. _____

*Note: Students checking one of the other categories are not eligible for financial aid.

9. a. Are you currently on suspension from any college? (Circle) Yes No

b. Have you ever been convicted of a felony? (Circle) Yes No

If you answered yes on item 9a or 9b, please explain the situation on the back of this application.

10. The college term in which you expect to enroll: Fall 19 _____ Spring 19 _____ Summer 19 _____

11. High school date of graduation 19 _____ or date GED passed 19 _____

12. _____
(Name of High School) (City) (State)

Are you a mid-term high school graduate? (Circle) Yes No

13. Students who have degrees are not required to have all of their transcripts sent to the Registrar's Office, only the transcripts from the institution where the highest degree was issued. If you have taken courses after your degree was issued we must have copies of transcripts from those colleges.

14. COLLEGES ATTENDED: PUT MOST RECENT ON THE TOP LINE

NAME	LOCATION	DATES ATTENDED	
		FROM	TO

15. What is your racial background? American Indian or Alaskan Native _____ Asian or Pacific Islander _____ Black/Negro _____
 Caucasian/White _____ Is your ethnic heritage Hispanic? Yes _____ No _____

16. In case of emergency (next of kin) _____

Address _____ City _____ County _____

State _____ Zip Code _____ Telephone No. _____

17. I certify that the information provided is complete and correct to the best of my knowledge.

18. _____
 Signature

_____ Date Submitted

Missouri Southern State College does not discriminate on the basis of sex, race, creed, color, national origin, or handicap in its educational programs or activities.

Housing Information

On campus residence requirements

All freshmen and sophomores are required to live in the Missouri Southern State College Residence Halls to the extent space is available, unless they are married, live with their parents, live with a relative, or are excused by the Director of Student Life.

General information

Missouri Southern houses over 600 students on campus. The two main residence halls are Webster Hall (200 men, 25 women) and South Hall (115 women). In addition, there are two women's annex halls with 32 women living in single room occupancy. Apartment-style units house an additional 280 students.

The rooms on campus are furnished with twin size beds, bed pads, study carrels, desks, chairs, lamps, wastebaskets, draperies, and night stands. Students are required to bring sheets, pillow, blankets, and all personal belongings. The apartment units are also furnished with sofa, chair, lamps, and coffee table.

All residence hall facilities are air-conditioned. Cable TV rooms, study lounges, recreational areas, IBM Personal Computers, vending machines, and laundry facilities are also included. The residence halls are staffed by two full time professional Head Residents who are assisted by a paraprofessional staff of 19 Staff Assistants.

Resident students are also entitled to Food Service. Twenty meals are served each week in the Student Center Cafeteria. Individual meals feature salad bar and unlimited servings, including entrees.

For additional information

Call: Housing Office
Missouri Southern State College
(417) 624-8100, ext. 222
Missouri Residents call our toll free
number 1-800-492-4811

or write: Housing Office
Missouri Southern State College
Joplin, MO 64801-1595

Request for application

Complete and return the form below to receive an Application for Housing.

Name _____ Date _____
(Last) (First) (Middle)
Address _____
(Street) (City) (State) (Zip Code)
Telephone _____

Detach and return this form to: Housing Office
Missouri Southern State College
Joplin, MO 64801-1595